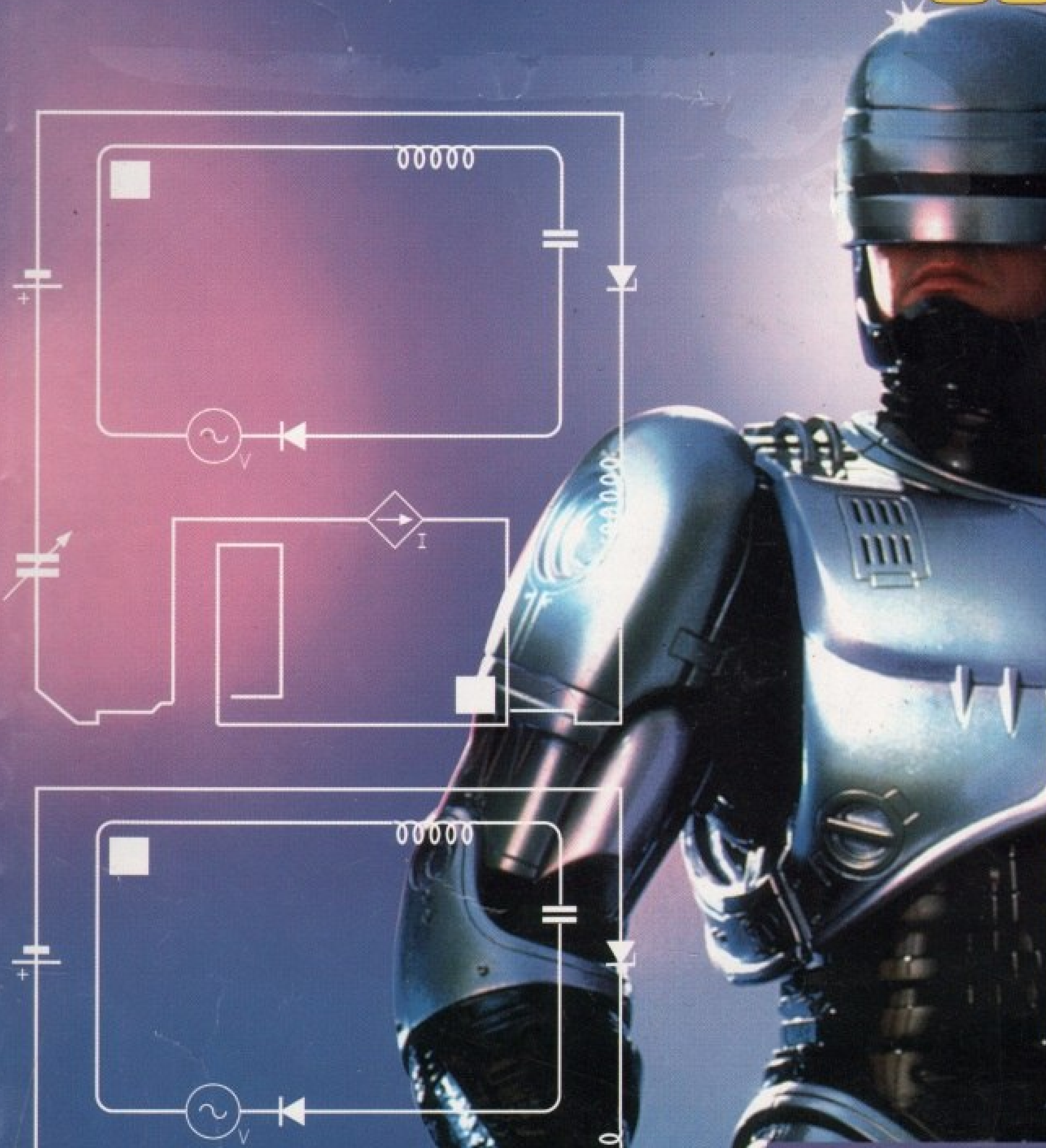
Issue 77 ■ September ■ 1994 £3.99 *Overseas price £4.25 Hfl 18.95*

AMIGA COMPUTING



Let there be light

A mouth-watering look at Lightwave PAL, the software responsible for Robocop the series – PLUS all its essential add-ons

PageStream 3.0 Exclusive: The DTP package the Amiga world has been waiting for

Product reviews

MainActor - Vital software for any Amiga animator

Retina III - The next generation in Amiga graphics

CES Report - The latest games news from the States

Home Studio - Essential info for any musician

Blitz Basic - The start of our comprehensive tutorial

SYSTEM

Facts not fiction - *the* guide to Amiga gaming

09
9 770959 963077
europress PUBLICATIONS

BUY TODAY - PAY IN 6 MONTHS

This must be the ultimate offer!! Order any Indi advertised products with a total value of over £100, use them for 6 months and then pay today's normal Indi Price, **No Interest, No deposit, No Strings Attached**. All you have to do is fill in our application form and subject to status the products will be on there way to you. At the end of the 6 month period you will be asked whether you wish to have extended credit from 6 to 60 Months* or pay for your goods in full and without any charges - the choice is yours. Initially you will be asked to choose an extended credit period, however this can be changed to a different payment period or 6 months interest free payment in full.

INDI DIRECT MAIL

is original and very exciting. Before you buy mail order you must first be confident that you will receive the product you've ordered and that the supplier will still be there in the future, should you need them.
A mail order purchase from INDI is a safe and secure decision and here's why. Indi is a wholly owned subsidiary of a public company now in its eleventh year of trading and specialising in the supply of computer products. With a group turnover approaching £30 million per annum, INDI have the resources and the purchasing power to offer you the best deals, deliver them next day nationwide and always be around when you need us.

Express Cheque Clearance

Simply write your cheque guarantee card number, name and address on the back of your cheque and we will normally be able to despatch your order the day that we receive your cheque. Cheques, received without a cheque guarantee card number, will normally clear within a maximum 7 working days.

INDI TELESALES
TEL 0543 419999 FAX 0543 418079
9am - 6pm Monday to Friday
9.30am - 3.30pm Saturdays

MICROVITEC MONITORS



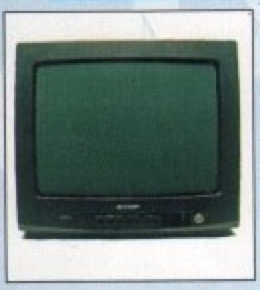
This superb monitor offers a high quality 0.28 dot pitch and low radiation total MPR-II compliance.
Complete with external Stereo Speakers and includes all leads - this is the monitor that we have all been waiting for.

External Speakers Included



£295.99 Add a pair of our Quality Stereo Speakers to your existing Monitor. Indi Price £16.99

Sharp Monitor / TV



The superb Sharp 14" Monitor / TV provides a real alternative to a Commodore Monitor with full function remote control 39 channel electronic auto search tuning, digital on screen display and 1.5 watt Mpo audio output. All you need to know is the low low price. The Sharp Monitor / TV is the product for you complete with scart socket and connectivity cable and including 12 months Warranty. £169.99

£169.99

BUY TODAY PAY IN 6 MONTHS

* No Deposit * No Interest Charges
* No Strings Attached * Subject to Status

Order today and fill in our credit application form. Choose a payment period from 6 - 60 Months and you will soon be using your SX-1 for 6 months for Nothing. At the agreed date you choose whether to start the easy payment plan* or to pay for your SX-1 in full at today's price and without any interest charges - No Strings Attached. Applicants must be over 18 years of age and in full time employment.
* APR 29.9

SX-1

CD 32 EXPANSION MODULE

We said it would be good - we were wrong, it's amazing. The Amiga CD32 now comes of age with full Keyboard Floppy Drive, Hard Drive, Printer and Full Motion Video compatibility. Simply plug into your CD32 and the world of real computing begins. No longer a mere consul this is what new technology is all about. * Real Time Battery Backed Clock * Serial Support * Parallel Port * RGB Interface * External Floppy Drive Port * IDE Interface Port * AT Keyboard Interface. Upto 8Mb 32 bit memory expansion (subject to FMV) * 2.5" IDE Internal HD Expansion

SX-1 EXPANSION MODULE £195.99

Expansion Options

BLACK KEYBOARD	£ 45.99
ZAPPO FLOPPY DRIVE	£ 48.99
*POWER SUPPLY	£ 35.99

*Indi recomend the use of an additional power supply if more than 2 expansion options are anticipated

SX-1 Super Bundle

SX-1 Ex pansion Module
Black Keyboard
Zappo Floppy Drive
Power Supply

£289.99 SAVE £36.97

Amiga CD³²

Once again Indi bring you the best deal in town with a full **£70** off the fabulous **SPECTACULAR CD32 Voyage Pack**. Why so generous? It's simple. The more **CD32** we sell the more software you will buy and at **Indi Prices** who could blame you.
Amiga CD32 Comes with 2 GREAT GAMES Microcosm and Chaos Engine and whilst stocks last Oscar, Diggers and Wing Commander. CD32 will play your favourite Music CD's

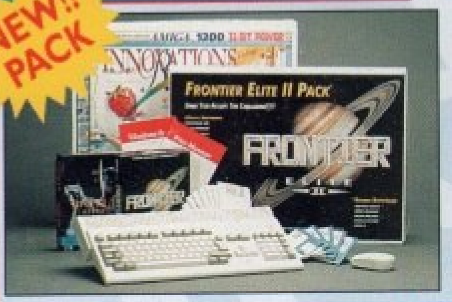
~~£299.99~~ Commodore List Price **£229.99**

Competition Pro CD32 Control Pad

Competition Pro CD32 control pad. Why not add a second control pad and really compete!
* Turbo fire and Auto Fire
* Slow motion selector
* 8 way Superswitch
* Control pad for both CD games and audio CD

£14.99 ~~£19.99~~

NEW!! PACK



Frontier Innovations Pack

Comes complete with
* Amiga1200 * Frontier Elite II
* Batman Returns
* Wordworth AGA
* Print Manager
* Personal Paint V4
* Day by Day
* Total Carnage
* Brian the Lion
* Zool 2

£319.99

Hard Drive Options

80 Mb Hard Drive Pack £489.99
120 Mb Hard Drive Pack £519.99
170 Mb Hard Drive Pack £579.99

12 Months At Home Warranty from ICL

NEW NEW NEW

THE NEW ZAPPO SMART STOR



Buy Now Pay - in 6 Months

The **New Zappo Smart Stor** provides games and **data portability** never before available to the **Amiga 600 and 1200** owner. Simply slip into the **PCMCIA Slot** on your Amiga and you have access to **20Mb of Smart Storage.** Want to run your **Stored Games** or Data on a friends Amiga, no problem, simply unplug the Smart Stor and you have **Total Portability.**

***20 Mb £139.99** ***30 Mb £169.99**

* Fully configured * Superfast Access
* 12 Months Warranty

"....for its impressive price tag and the sheer convenience of being able to plug in and go, the Smart Stor deserves to do very well indeed".
".....Smart Stor is a genuine godsend". Amiga Format July 1994

Commodore 601

Trapdoor upgrade for the Amiga 600, 512K.
INDI PRICE £19.99

2 Mb Smartcard

The original and still the only fully PCMCIA compatible memory card for the A600 and A1200. Comes with lifetime guarantee. Beware of cheap immitations. **INDI PRICE £99.99**

4 Mb Smartcard

Same as above but maximum 4Mb.
INDI PRICE £155.99

TEL: 0543 419 999 FAX: 418 079

Panasonic

SUMMER PRINTER DEALS

Option 1

Whilst Stocks Last

Panasonic KX - P2123

- Colour Ribbon
- Black Ribbon
- Mouse House
- Mouse Mat
- 500 sheets A4 Paper
- Wordworth Word Processing Software

£189.99



- Fast Printing Speeds: 192 CPS draft, 64 CPS LQ and 32 SLQ.
- Colour Printing: 7 Colour palette (blue, red, green, yellow, violet, magenta, black)
- Quiet printing: Super quiet 43.5-46 dBa sound level (most matrix printers are typically in excess of 60dBa)
- 7 Resident Fonts: Over 152,000 type styles using Super LQ, Courier Prestige, Bold PS Roman, Script and San Serif fonts.
- 24 Pin Diamond Shaped Printhead: High performance and high quality output.
- 1 year Warranty: for total peace of mind

Option 2

Whilst Stocks Last

Panasonic KX - P2123

- 2 Colour Ribbons
- 2 Black Ribbons
- Mouse House
- Mouse Mat
- 500 sheets A4 Paper

£189.99

Panasonic KX - P4400

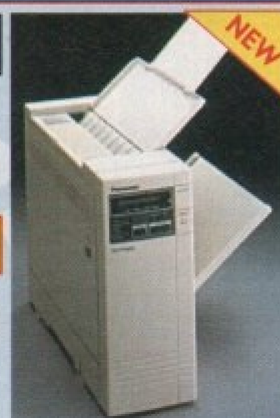
NEW

New Ultra - Compact LED Page Printer Announcing the **Panasonic KX - P 4400** LED Page printer, the printer that fits virtually anywhere. Ultra small foot print (12.7cm X 38.1cm ex trays) and under 6.5 kg, this printer travels with you.

- 4 pages per minute of crisp, 300 dpi laser quality output.
- 100 sheet, multi purpose paper tray (A4, letter, legal and executive)
- 28 internal bitmapped fonts
- HP laserjet series IIP
- 1 Mb Ram expandable to 5 Mb
- 1600 copies per toner.
- 1 Year On Site Warranty

SAVE 137

~~£587~~ **£449.99**



Panasonic KX - P5400

Adobe Postscript LED Page printer now available. Specification as above plus * 2 Mb Ram standard * Adobe Postscript level 2inc 17 Adobe Fonts * Optional AppleTalk interface available

£759.99

Panasonic KX - P2023



Quiet printing	46.5 dBa standard mode, 43.5 dBa super quiet mode
Fast Printing Speeds	192 CPS draft, 64 CPS LQ
4 Resident Fonts	Courier, Prestige, Bold PS and Script
2 Paper Paths	Top and Rear
1 year Warranty	for total peace of mind

~~£217.00~~ **£144.99**

FREE Autocut Sheetfeeder whilst stocks last

Recently reviewed by Amiga Format "A fine 24-pin dot matrix printer at a reasonable price.

Buy from **INDI AND SAVE OVER £72**

Panasonic KX-P4430 Laser Printing



- 8 scalable fonts. 28 bitmap fonts
- Optional 2nd input bin (total printer capacity 2X 200 sheets)
- Optional memory expansion to 5Mb (1Mb as standard)

£649.99

Panasonic 2 YEAR ON-SITE WARRANTY

SPECIFICATION

- Satinprint (optimum resolution technology)
- 5 pages per minute
- HP laserjet III emulation, PCL 5

WORDWORTH SOFTWARE COMPLETELY FREE WITH KX - P 4430

Printer Accessories

1) **Printer Dust Cover**
Specially tailored quality dust cover for the Panasonic KX-2123 printer
INDI PRICE £8.99

2) **Printer Stand**
-2 Piece printer stand
INDI PRICE £9.99

3) **Paper Pack**
-500 sheets of quality A4 paper
INDI PRICE £9.99

4) **Continuous Paper**
-2000 sheets 1 part listing paper
INDI PRICE £19.99

5) **Parallel Printer Cable**
-To be used when connecting Amiga to Panasonic printers
INDI PRICE £8.99

6) **Panasonic Colour Ribbon**
-Colour ribbon for KX-P2123
INDI PRICE £12.99

7) **Panasonic Black Ribbon**
-Black ribbon for KX-P2123
INDI PRICE £6.99

Panasonic KX - P1150

NEW



This quality 9-pin mono dot matrix printer represents excellent value for money.

- 9 - pin narrow carriage
- 7 Fonts
- 240CPS, 38 CPS NLQ
- 1 Year Warranty
- Paper parking

~~£163~~ **£114.99** SAVE £48

Indi Direct Mail Customer Charter

INDI DIRECT MAIL is original and very exciting. Before you buy mail order you must first be confident that you will receive the product you've ordered and that the supplier will still be there in the future, should you need them.

A mail order purchase from **INDI** is a safe and secure decision and here's why. Indi is a wholly owned subsidiary of a public company now in its eleventh year of trading and specialising in the supply of computer products.

With a group turnover approaching £30 million per annum, **INDI** have the resources and the purchasing power to offer you the best deals, deliver them next day nationwide and always be around when you need us.

YOURS FOR 6 MONTHS THEN PAY TODAYS RETAIL PRICE. NO INTEREST CHARGES, NO DEPOSIT, NO STRINGS ATTACHED

SUBJECT TO STATUS

EXPORT NUMBERS
TEL: (44)543 419999
FAX: (44)543 418079

INDI DIRECT MAIL
1 RINGWAY INDUSTRIAL ESTATE,
EASTERN AVENUE,
LICHFIELD STAFFS. WS13 7SF

PLEASE ENCLOSE £5 FOR SECURICOR DELIVERY

Please send 1)..
2)..
3)..
Price.......................... + Delivery
I enclose cheque/ PO for £..............or charge my Access / Visa
No........................Expiry......./......./.......Signature..........................
Name..
Address..
....
....
Postcode ....Daytime Tel..................

AC0994

TEL: 0543 419 999 FAX: 418 079



THE GREATEST 16.99 | THEME PARK 23.49 | ARCADE POOL CD32 9.99 AM 6.99 | CHAMP. MANAGER '93 9.99 | PREMIER MANAGER 2 7.99 | SPORTS MASTERS 13.99 | BENEATH STEEL SKY 22.49 | SENSIBLE INT'L 15.49 | TRIVIAL PURSUIT CD32 19.99

IMPORTANT - PLEASE NOTE
NOP = will not work on A500 Plus, A600 or A1200
NO12 = will not work on A1200
1 MEG = requires 1 MB of RAM
• = NEW Item

AMIGA A1200 VERSION GAMES

AIR BUCKS V1.2 ... 18.99
ALIEN BREED - TOWER ASSAULT • ... 14.99
ALIEN BREED 2 ... 18.99
BODY BLOWS ... 11.99
BODY BLOWS GALACTIC ... 18.99
BRUTAL FOOTBALL DELUXE ... 15.49
CAPTIVE 2 - LIBERATION ... 20.99
CHAOS ENGINE ... 18.49
GUNSHIP 2000 ... 23.49
HEIMDALL 2 - BANE OF ASGARD ... 21.49
IMPOSSIBLE MISSION ... 22.49
ISHAR 2 - LEGIONS OF CHAOS ... 18.99
JAMES POND 3 ... 19.99
JURASSIC PARK ... 12.99
KICK OFF 3 • ... 19.99
KID VICIOUS • ... 18.99
KINGPIN • ... 8.99
MIGHTY MAX • ... 18.99
ON THE BALL - LEAGUE EDITION • ... 20.49
ON THE BALL - WORLD CUP EDITION • 20.49
PLANET FOOTBALL • ... 22.49
RYDER CUP ... 11.49
SABRE TEAM ... 18.99
SIMON THE SORCERER ... 24.49
SOCCER KID ... 19.49
STAR TREK - 25TH ANNIVERSARY (HARD DRIVE ONLY) ... 22.49
SUPER STARDUST ... 16.99
TFX ... 25.99
THEME PARK ... 23.49
TOP GEAR 2 ... 17.49
UFO - ENEMY UNKNOWN ... 23.49
WEMBLEY - INTERNATIONAL SOCCER 17.49
ZOOL ... 18.49

AMIGA GAMES

FOR OUR FULL SELECTION OF AMIGA GAMES PLEASE ASK FOR A FREE 16-PAGE COLOUR CATALOGUE

A-TRAIN (1 MEG) ... 9.99
AIR BUCKS V1.2 ... 11.99
ALIEN 3 ... 11.99
ALIEN BREED (SPECIAL EDITION) (1 MEG) 9.49
ALIEN BREED 2 (1 MEG) ... 17.49
APIDYA • ... 9.99
APOCALYPSE (1 MEG) ... 18.99
ARABIAN NIGHTS ... 9.49
ARCADE POOL (1 MEG) ... 6.99
ARCHER MACLEAN'S POOL ... 11.49
ASSASSIN REMIX ... 9.99
AWARD WINNERS GOLD (SENSIBLE SOCCER, ELITE, JIMMY WHITES SNOOKER, ZOOL) (1 MEG) ... 20.99
B17 FLYING FORTRESS (1 MEG) ... 22.99
BATTLE ISLE 93 ... 17.49
BATTLE OF BRITAIN ... 12.49
BENEATH A STEEL SKY (1 MEG) ... 22.49
BIRDS OF PREY (1 MEG) (NO12) ... 11.49
BLACK CRYPT (1 MEG) ... 10.49
BODY BLOWS (1 MEG) ... 7.99
BODY BLOWS GALACTIC (1 MEG) ... 17.49
BREACH 2 • ... 16.99
BRIAN THE LION ... 17.99
BRUTAL FOOTBALL ... 13.99
BUBBA 'N' STIX ... 16.99
CAESER DELUXE ... 11.99
CAMPAIGN (1 MEG) ... 11.99
CAMPAIGN 2 (1 MEG) ... 22.99
CANNON FODDER (1 MEG) ... 20.49
CHAMPIONSHIP MANAGER 93/94 (END OF SEASON DATA DISK) (1 MEG) ... 13.49
CHAMPIONSHIP MANAGER COLLECTION (93/94 + UPDATE DISK) (1 MEG) ... 14.99
CHAMPIONSHIP MANAGER ITALIA (1 MEG) 17.49
CHAOS ENGINE ... 12.99
CIVILISATION (1 MEG) ... 16.99
CLUB FOOTBALL-THE MANAGER (1 MEG) 20.99
COMBAT AIR PATROL ... 14.99
COMBAT CLASSICS (F15 STRIKE EAGLE 2, 688 ATTACK SUB, TEAM YANKEE) (1 MEG) (NO12) ... 13.99
COMBAT CLASSICS 2 (SILENT SERVICE 2, F19 STEALTH FIGHTER, PACIFIC ISLAND) (1 MEG) ... 20.99
COOL SPOT ... 20.49
CORRUPTION (M/SCROLLS) ... 7.49
CRUISE FOR A CORPSE ... 11.49
CURSE OF ENCHANTIA (1 MEG) ... 11.99
D-DAY (IMPRESSIONS) (1 MEG) ... 21.99
DARKSEED (1 MEG) ... 21.49
DETROIT (1 MEG) ... 21.49
DOGFIGHT (1 MEG) ... 14.99
DREAMLANDS (TRANSARTICA, STORM MASTER, ISHAR) (1 MEG) ... 18.99
DUNE (1 MEG) ... 11.49
DUNE 2 - BATTLE FOR ARRAKIS (1 MEG) 17.99
DUNGEON MASTER 2 (1 MEG) • ... 22.99
DYNA BLASTERS (NO12) ... 20.49
ELFMANIA (1 MEG) • ... 18.99
ELITE ... 9.99
ELITE 2 (FRONTIER) (1 MEG) ... 18.99
EMPIRE SOCCER (1 MEG) ... 18.49
EUROPEAN CHAMPIONS (1 MEG) ... 10.99
EYE OF THE BEHOLDER (SSI) (1 MEG) 12.49
EYE OF THE BEHOLDER 2 (1 MEG) ... 12.49
F1 (DOMARK) (1 MEG) ... 17.99
F117A STEALTH FIGHTER 2.0 (1 MEG) 12.99
F19 STEALTH FIGHTER (NOP) ... 2.99
FIELDS OF GLORY (1 MEG) • ... 23.49
FIFA INTERNATIONAL SOCCER (1 MEG) • 20.99
FIRST SAMURAI+MEGA LO MANIA (NO12) 13.99
FLASHBACK (1 MEG) ... 20.99
FLY HARDER ... 8.99
FORMULA 1 GRAND PRIX ... 15.99
GENESIA (1 MEG) ... 20.49
GOAL ... 8.49
GRAHAM GOOCH DATA DISK ... 12.99
GRAHAM GOOCH WORLD CLASS CRICKET (1 MEG) ... 18.49
GUNSHIP 2000 (1 MEG) ... 22.49
HEIMDALL 2 - BANE OF ASGARD (1 MEG) 21.49
HEROQUEST 2 (1 MEG) ... 16.99
HIRED GUNS (1 MEG) ... 11.99
HISTORYLINE 1914-18 (1 MEG) ... 22.99
HOOK ... 5.99
HUNTER (NO12) ... 6.99
IMPOSSIBLE MISSION (1 MEG) • ... 20.49
IINDIANA JONES ACTION ... 4.99
INDIANA JONES FATE OF ATLANTIS ADVENTURE (1 MEG) ... 24.49
INNOCENT (1 MEG) ... 24.99
ISHAR 2 - LEGIONS OF CHAOS (1 MEG) 11.49
ISHAR 3 (1 MEG) ... 20.99
JAGUAR XJ220 (1 MEG) ... 9.49
JET STRIKE ... 17.99
JIMMY WHITES SNOOKER (NO12) ... 11.49
JINXTER (M/SCROLLS) ... 4.49
JOHN MADDEN'S (U.S) FOOTBALL ... 10.49
JURASSIC PARK (1 MEG) ... 11.99
K240 (UTOPIA 2) (1 MEG) ... 18.49
KGB ... 11.49
KICK OFF 3 • ... 16.99
KINGMAKER (1 MEG) ... 23.49
KINGS QUEST 1 ... 11.49
KINGS QUEST 2 (1 MEG) ... 10.49
KINGS QUEST 3 ... 10.49
KINGS QUEST 4 (1 MEG) ... 12.49
KNIGHTS OF THE SKY (1 MEG) ... 12.49
LASER SQUAD ... 8.99
LEGENDS OF VALOUR (1 MEG) (NO12) 15.99
LEISURE SUIT LARRY 1 (1 MEG) ... 11.49
LEISURE SUIT LARRY 2 (1 MEG) ... 11.49
LEISURE SUIT LARRY 3 (1 MEG) ... 12.49
LEMMINGS 2 ... 13.49
LEMMINGS DATA DISK - OH NO! ... 6.49
LOMBARD RAC RALLY ... 6.99
LORDS OF CHAOS ... 8.99
LORDS OF THE REALM (1 MEG) • ... 21.49
LURE OF THE TEMPTRESS (1 MEG) ... 11.49
MAN UTD PREMIER LEAGUE CHAMPIONS (1 MEG) ... 18.99
MICRO MACHINES ... 16.99
MONOPOLY ... 18.49
MORTAL KOMBAT (1 MEG) ... 20.49
MR NUTZ ... 19.49
NICK FALDO'S GOLF ... 14.99
NIGEL MANSELL'S WORLD CHAMPIONSHIP (1 MEG) ... 16.99
ON THE BALL - WORLD CUP EDITION (1 MEG) • ... 18.99
OVERDRIVE (1 MEG) ... 5.99
PATRICIAN (1 MEG) ... 20.49
PINBALL DOUBLE PACK (1 MEG) (PINBALL DREAMS & FANTASIES) ... 16.99
PINBALL DREAMS (1 MEG) ... 12.49
PINBALL FANTASIES ... 14.99
PINKIE (1 MEG) • ... 17.99
PIRATES (NOP) ... 10.49
POLICE QUEST 1 ... 12.49
POLICE QUEST 3 (1 MEG) • ... 12.99
POPULOUS 2 (1 MEG) + CHALLENGE DATA DISK ... 22.49
POWERMONGER + WW1 DATA (NO12) 11.49
PREMIER MANAGER (1 MEG) ... 11.99
PREMIER MANAGER 2 (1 MEG) ... 7.99
PROJECT X (SPECIAL EDITION) (1 MEG) 10.49
PUGGSY (1 MEG) ... 20.49
QWAK ... 9.99
RAILROAD TYCOON (1 MEG) (NOP) ... 13.49
RAINBOW COLLECTION (BUBBLE BOBBLE, RAINBOW ISLANDS, NEW ZEALAND STORY) (NOP) ... 10.99
REACH FOR THE SKIES ... 11.99
REALMS (1 MEG) ... 10.49
ROAD RASH ... 10.49
ROBINSONS REQUIEM (1 MEG) ... 20.49
ROBOCOP 3 (NO12) ... 10.49
RORKE'S DRIFT ... 8.99
SABRE TEAM ... 11.99
SCRABBLE (US GOLD) ... 19.49
SECOND SAMURAI (1 MEG) (NO12) ... 9.49
SECRET OF MONKEY ISLAND (1 MEG) ... 11.99
SECRET OF MONKEY ISLAND 2 (1 MEG) 24.49
SENSIBLE SOCCER ('92/93 SEASON) ... 12.99
SENSIBLE SOCCER - INTERNATIONAL EDITION (1 MEG) ... 15.49
SETTLERS ... 23.49
SHADOWORLDS (N012) ... 4.99
SIERRA SOCCER (WORLD CUP) (1 MEG) 17.49
SILENT SERVICE 2 (1 MEG) ... 12.49
SIM CITY DELUXE (SIM CITY, FUTURE CITIES & TERRAIN EDITOR) ... 15.99
SIMON THE SORCERER (1 MEG) ... 21.49
SKID MARKS (1 MEG) ... 17.49
SLEEPWALKER ... 8.99
SOCCER KID ... 11.49
SPACE HULK ... 15.99
SPACE LEGENDS (WING COMMANDER, MEGATRAVELLER, ELITE) (1 MEG) ... 9.99
SPACE QUEST 3 (1 MEG) • ... 12.99
SPECIAL FORCES (1 MEG) ... 10.99
SPEEDBALL 2 ... 6.99
SPORTS MASTERS (PGA GOLF, INDY 500, ADVANTAGE TENNIS, EUROPEAN CHAMPIONSHIP'S 1992) (1 MEG) ... 13.99
STARDUST ... 12.49
STARLORD (1 MEG) • ... 22.99
STREETFIGHTER 2 ... 11.49
STRIKER (1 MEG) ... 8.99
SUPER FROG (1 MEG) ... 16.99
SUPREMACY (1 MEG) ... 10.49
SYNDICATE (1 MEG) ... 22.49
T2 (COIN OP) (1 MEG) ... 7.99
TACTICAL MANAGER - ENGLISH LEAGUE (1 MEG) ... 21.49
SCOTTISH LEAGUE (1 MEG) ... 21.49
ITALIAN LEAGUE (1 MEG) ... 21.49
TEAM 17 COLLECTION (BODY BLOWS, SUPER FROG, OVERDRIVE) ... 26.99
THE BLUE & THE GREY (1 MEG) ... 21.49
THE GREATEST (JIMMY WHITES, LURE OF THE TEMPTRESS, DUNE) (1 MEG) ... 16.99
THE LOST TREASURES OF INFOCOM 1 (20 CLASSIC INFOCOM TEXT ADVENTURES) ... 18.99
TITUS THE FOX ... 9.99
TORNADO (1 MEG) ... 24.99
TRAPS 'N' TREASURES (1 MEG) • ... 16.99
ULTIMA 5 (NO12) ... 5.99
VALHALLA (1 MEG) • ... 18.99
VIKINGS - FIELD OF CONQUEST (1 MEG) 11.49
VITAL LIGHT (1 MEG) • ... 16.99
WALKER ... 9.99
WAR IN THE GULF ... 19.99
WEMBLEY - RUGBY LEAGUE (1 MEG) ... 17.49
WHEN TWO WORLDS WAR (1 MEG) ... 21.49
WILD CUP SOCCER (1 MEG) • ... 17.99
WING COMMANDER 1 (1 MEG) ... 7.99
WINTER OLYMPICS ... 21.49
WIZ-KID ... 10.49
WORLD CUP USA 94 (1 MEG) • ... 19.49
WORLD CUP YEAR 94 (GOAL, CHAMPIONSHIP MANAGER 94 + DATA DISK, STRIKER, SENSIBLE SOCCER) (1 MEG) ... 20.99
WWF WRESTLING 2 (1 MEG) ... 8.99
ZOOL (1 MEG) ... 8.99
ZOOL 2 (1 MEG) ... 9.99

AMIGA EDUCATIONAL

FOR OUR FULL SELECTION PLEASE SEE OUR COLOUR CATALOGUE

10 OUT OF 10 - EARLY ESSENTIALS. AGES 3-7, CREATES AN IDEAL FOUNDATION FOR CHILDREN TO BUILD ON. (1 MB, INSTALLABLE) ... 18.99
10 OUT OF 10 - ENGLISH. AGES 6-16, COVERS MAJOR AREAS OF THE NATIONAL CURRICULUM (1 MB, INSTALLABLE) ... 18.99
10 OUT OF 10 - JUNIOR ESSENTIALS. AGES 5-11, BUILDING FOUNDATIONS FOR MANY AREAS OF THE NATIONAL CURRICULUM. (1 MB, INSTALLABLE) ... 18.99
10 OUT OF 10 - MATHS NUMBERS AGES 6-16, NATIONAL CURRICULUM (1 MB, INSTALLABLE) ... 18.99
ADI GCSE FRENCH PACK (14-16 YEARS) 1 MB, DOUBLE AGE GROUP PACK THE PERFECT GCSE REVISION TOOL 22.99
ADI GCSE MATHS PACK (14-16 YEARS) 1 MB, DOUBLE AGE GROUP PACK THE PERFECT GCSE REVISION TOOL 22.99
FUN SCHOOL 3 (2-5 YRS) ... 14.99
FUN SCHOOL 3 (5-7 YRS) ... 14.99
FUN SCHOOL 4 (5-7 YRS) ... 16.99
FUN SCHOOL 4 (7+ YRS) ... 16.99
FUN SCHOOL SPECIALS
MERLIN'S MATHS (7-11 YRS) ... 17.99
PAINT 'N CREATE EDU ART (5+ YRS) ... 17.99
SPELLING FAIR (7-13 YRS) ... 17.99
MICRO ENGLISH. 8 YRS TO GCSE. CONFORMS TO NATIONAL CURRICULUM. (1 MB) ... 18.99
MICRO FRENCH. BEGINNER TO GCSE. CONFORMS TO N/CURRICULUM (1 MB) 18.99
MICRO GERMAN. BEGINNER TO GCSE AND BUSINESS LEVEL. CONFORMS TO NATIONAL CURRICULUM (1 MB) ... 18.99
MICRO MATHS. 11 YRS TO GCSE. CONFORMS TO N/CURRICULUM. (1 MB) ... 18.99
MICRO SCIENCE. 8 YRS TO GCSE. CONFORMS TO N/CURRICULUM. (1 MB) ... 18.99
MICRO SPANISH. BEGINNER TO GCSE. CONFORMS TO N/CURRICULUM. (1 MB) ... 18.99
NODDY'S BIG ADVENTURE. SEQUEL TO THE POPULAR NODDY'S PLAYTIME SERIES. (1 MB, INSTALLABLE) ... 18.99
NODDY'S PLAYTIME. SUPERB NODDY THEMED EDUCATIONAL ADVENTURE. SUITS AGES 3+. (1 MB, INSTALLABLE) 18.99

AMIGA A1200 VERSION APPLICATIONS

DELUXE PAINT 4 AGA. ENHANCED VERSION FOR A1200 AND A4000. PAINT AND ANIMATE IN UP TO 256,000 COLOURS FROM 16.7 MILLION. (2 MB, EXTERNAL DISK OR HARD DRIVE REQUIRED) ... **59.99**
VISTA PRO (LITE). CREATE SPECTACULAR VIRTUAL WORLDS WITH THIS POWERFUL SCENERY CREATOR AND ANIMATOR. SPECIAL LITE VERSION TO RUN ON A1200 OR A4000. (2 MB, DRIVE REQUIRED) ... **44.99**

A1200 WORDWORTH DEALS

WORDWORTH V2 AGA WORD PUBLISHER. NEW LOW PRICE. (1 MB, EXTERNAL DISK OR HARD DRIVE REQUIRED) ... **39.99**
WORDWORTH V3a AGA WORD PUBLISHER. THE LATEST AND GREATEST VERSION OF TOP QUALITY WORD PUBLISHER PACKAGE. (2 MB, EXTERNAL DISK OR HARD DRIVE REQUIRED) ... **74.99**

AMIGA APPLICATIONS

FOR OUR FULL SELECTION PLEASE SEE OUR COLOUR CATALOGUE

AMOS - EASY. TUTORIAL VERSION OF AMOS (1 MB, INSTALLABLE) ... **22.99**
AMOS - PROFESSIONAL. MORE POWERFUL AND PROFESSIONAL VERSION OF BEST SELLING GAMES CREATOR, MORE COMMANDS, MORE FLEXIBILITY AND BETTER USER INTERFACE (1 MB, INSTALLABLE) ... **31.99**
AMOS - PROFESSIONAL COMPILER. COMPILES AND SPEEDS UP PROGRAMS WRITTEN IN AMOS, EASY AMOS OR AMOS PROFESSIONAL (1 MB, INSTALLABLE) ... **24.99**
BLITZ BASIC 2. BRAND NEW FAST AND EASY TO USE VERSION OF BASIC. COMPLETE WITH MANUAL AND COMPILER SYSTEM. THE HOTTEST NEW LANGUAGE AVAILABLE. ... **56.99**
DELUXE PAINT 3. A VERY POWERFUL ART AND ANIMATION PACKAGE WITH EXTENSIVE FEATURES. A BEST SELLER AND A TOP AWARD WINNER. MANY FONT AND PRINTING OPTIONS AND SAMPLE ANIMATION AND ART INCLUDED (1 MB, INSTALLABLE) ... **14.99**
DELUXE PAINT 4. PAINT AND ANIMATE IN UP TO 4096 COLOUR HAM MODE (1 MB, INSTALLABLE) ... **59.99**
DIRECTORY OPUS 4. COMPLETE DIRECTORY AND FILE ORGANISING SYSTEM, INVALUABLE FOR HARD DRIVE USERS. (1 MB, INSTALLABLE) • ... **49.99**
FINAL WRITER (RELEASE 2) EXCELLENT WORD PUBLISHING SYSTEM WITH OVER 100 TYPEFACES, EASY TO USE (2 MB, DRIVE REQUIRED) • ... **74.99**
HANNA BARBARA ANIMATION WORKSHOP FOR CARTOONS ETC ... **29.99**
HOME ACCOUNTS. THE ORIGINAL VERSION OF THIS MONEY MANAGER (INSTALLABLE) ... **9.99**
HOME ACCOUNTS 2. TOP FEATURED PERSONAL FINANCE/SMALL OFFICE MANAGER. (1 MB, INSTALLABLE) ... **25.99**
KINDWORDS 3. FULLY FEATURED WORD PUBLISHER (1 MB, INSTALLABLE) ... **19.99**
MAXIPLAN 4. COMPLETE SPREADSHEET, BUSINESS GRAPHICS AND DATABASE SYSTEM. (1 MB, INSTALLABLE) • ... **19.99**
MINI OFFICE. INTEGRATED WORD PROCESSOR, SPREADSHEET, DATABASE AND DISK UTILITIES. (1 MB, INSTALLABLE) ... **35.99**
MONEY MATTERS (HOME ACCOUNTS 3). LATEST VERSION OF THE EXCELLENT MONEY PACKAGE FROM DIGITA (1 MB, INSTALLABLE) ... **35.99**
PC TASK. GOOD VALUE SIMPLE PC EMULATOR ALLOWING IBM PC APPLICATIONS TO BE USED ON YOUR AMIGA. PLEASE NOTE THAT THIS IS NOT SUITABLE FOR WINDOWS OR HIGH END APPLICATIONS. REQUIRES MS DOS 3.3 OR ABOVE. (1 MB, INSTALLABLE) ... **35.99**
PEN PAL. EASY TO USE WORD PROCESSOR. (1 MB, INSTALLABLE) ... **37.99**
PROFESSIONAL PAGE 4. EXCELLENT DESK TOP PUBLISHING SYSTEM. GREAT FEATURES AND EASY TO USE (2 MB, DRIVE REQUIRED) • ... **89.99**
PUBLISHER (PAGE LAYOUT PACKAGE). (NO12, 1 MB, EXTERNAL DISK OR HARD DRIVE REQUIRED) ... **19.99**

AMIGA CD32 CD's

FOR OUR FULL SELECTION PLEASE SEE OUR COLOUR CATALOGUE

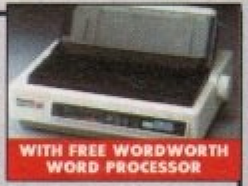
ALIEN BREED S/E & QWAK ... 16.99
ARABIAN NIGHTS (AGA) ... 11.99
ARCADE POOL ... 9.99
BANSHEE ... 18.99
BATTLECHESS ... 19.99
BENEATH A STEEL SKY • ... 19.99
BRUTAL FOOTBALL ... 19.49
BUBBA 'N' STIX ... 12.99
CANNON FODDER ... 19.99
CAPTIVE 2 - LIBERATION ... 15.99
CHAOS ENGINE ... 17.99
CHUCK ROCK 2 • ... 18.99
D/GENERATION ... 17.99
DISPOSABLE HERO ... 13.99
DIZZY COLLECTION (TEN DIZZY GAMES) ... 16.99
DIZZYS ENCHANTED WOODS • ... 11.99
ELITE 2 ... 18.99
EXTRACTORS -THE HANGING GARDENS OF ZARG • ... 18.99
FIRE AND ICE ... 16.99
GUNSHIP 2000 ... 19.99
HEIMDALL 2 ... 20.99
IMPOSSIBLE MISSION ... 19.99
JAMES POND 3 - OPERATION STARFISH 21.99
KICK OFF 3 • ... 21.99
KINGPIN • ... 12.49
LABYRINTH OF TIME ... 16.99
LEMMINGS ... 9.99
LOTUS TRILOGY (LOTUS 1, 2, 3) ... 18.99
MAN UTD PREMIER LEAGUE CHAMPS • ... 18.99
MICROCOSM ... 32.99
MORPH ... 11.99
NICK FALDO'S GOLF ... 22.99
PINBALL FANTASIES ... 19.99
PIRATES GOLD ... 15.99
PLANET FOOTBALL • ... 22.49
PREMIERE ... 11.99
PROJECT X S/E & F17 CHALLENGE ... 16.99
ROBOCOD (JAMES POND 2) ... 13.99
RYDER CUP ... 12.49
SABRE TEAM ... 19.99
SENSIBLE SOCCER ... 16.99
SENSIBLE SOCCER - INTERNATIONAL EDITION • ... 17.99
SIMON THE SORCERER • ... 23.49
SOCCER KID • ... 18.99
SUPER FROG ... 11.99
TFX ... 27.99
TRIVIAL PURSUIT ... 19.99
UFO - ENEMY UNKNOWN • ... 19.99
ULTIMATE BODY BLOWS (BODY BLOWS & BODY BLOWS GALACTIC) 19.49
WEMBLEY INTERNATIONAL SOCCER ... 19.99
WILD CUP SOCCER • ... 18.99
ZOOL 2 ... 18.99

DIGITAL VIDEO CD's

DIGITAL VIDEO CD's FOR CD32 OR CDi FITTED WITH FMV ADAPTOR

ANDREW LLOYD WEBBER ... 15.99
BEVERLY HILLS COP (15) ... 15.99
BLACK RAIN (18) ... 15.99
BOB MARLEY - THE LEGEND ... 15.99
BON JOVI - KEEP THE FAITH ... 15.99
BRYAN ADAMS - WAKING UP THE NEIGHBOURS ... 15.99
CARTOON CARNIVAL (U) ... 18.99
FATAL ATTRACTION (18) ... 15.99
GHOST (15) ... 15.99
HUNT FOR RED OCTOBER (15) ... 15.99
INDECENT PROPOSAL (15) ... 15.99
INDIANA JONES TEMPLE OF DOOM (PG) 15.99
INXS - LIVE BABY LIVE ... 15.99
LIONEL RICHIE - BACK TO FRONT ... 15.99
NAKED GUN 2 1/2 (15) ... 15.99
PATRIOT GAMES (15) ... 15.99
RAIDERS OF THE LOST ARK (PG) ... 15.99
STAR TREK 1 (PG) ... 15.99
STAR TREK VI (PG) ... 15.99
STING - TEN SUMMONER'S TALES ... 15.99
THE CURE ... 15.99
THE ESSENTIAL PAVAROTTI ... 15.99
THE UNTOUCHABLES (PG) ... 15.99
TINA TURNER - LIVE IN RIO • ... 15.99
TOP GUN (PG) ... 15.99
WAYNE'S WORLD (15) ... 15.99
WITNESS (15) ... 15.99

FREE PRINTER LEAD WITH ALL PRINTERS



PANASONIC KXP2123 COLOUR PRINTER
24 PIN, 80 COLUMN, 192 CPS/64LQ 7 FONTS (1 SCALABLE), EXTREMELY QUIET 43.5 DBA NOISE LEVEL, WITH FREE WORDWORTH WORD PROCESSOR. 1 YEAR WARRANTY. **199.99**

CANON BJ-200 BUBBLE JET PRINTER ... **239.99**
CANON BJ10-SX BUBBLE JET PRINTER ... **185.99**
CITIZEN ABC PRINTER WITH COLOUR KIT, 24 PIN WITH FREE EASYSTART SOFTWARE FOR AMIGA AND PC ... **159.99**
CITIZEN TRACTOR FEED KIT FOR CITIZEN ABC PRINTER ... 37.99
CITIZEN SWIFT 200C PRINTER WITH COLOUR KIT 24 PIN ... **189.99**
CITIZEN SWIFT 240C PRINTER WITH COLOUR KIT, 24 PIN ... **219.99**
CITIZEN PRINTER DRIVER KIT FOR AMIGA. SUITS ALL WORKBENCH VERSIONS FROM 1.3 TO 3.0. ENHANCES PRINT QUALITY FROM CITIZEN SWIFT PRINTERS. OUTSTANDING RESULTS ... **12.99**
EPSON LQ-100 PRINTER. 24 PIN • NEW LOWER PRICE • ... **139.99**
STAR WINTYPE 4000 LASER PRINTER ... **389.99**
TONER CARTRIDGE FOR STAR WINTYPE 4000 LASER PRINTER ... 69.99
INK CARTRIDGE (BLACK) FOR CANON BJ-10EX OR BJ-10SX ... 19.99
INK CARTRIDGE (BLACK) FOR CANON BJ-200 ... 23.99
INK CARTRIDGE (BLACK) FOR EPSON STYLUS 800 PRINTER ... 11.99
INK CARTRIDGE (BLACK) FOR HP DESKJET 510 PRINTER ... 24.99
INK CARTRIDGE (BLACK) FOR HP DESKJET PORTABLE PRINTER ... 19.99
RIBBON (BLACK) FOR CITIZEN 24, 200, 224, 240 OR ABC PRINTER ... 6.99
RIBBON (BLACK) FOR CITIZEN 9, 90 OR 120D PRINTER ... 5.99
RIBBON (BLACK) FOR EPSON LQ-150 ... 8.99
RIBBON (BLACK) FOR EPSON LQ100 PRINTER ... 8.99
RIBBON (BLACK) FOR PANASONIC KXP2123/4, KXP2180 ... 10.99
RIBBON (BLACK) FOR STAR LC100 OR LC20 PRINTER ... 6.99
RIBBON (BLACK) FOR STAR LC200 PRINTER ... 8.99
RIBBON (BLACK) FOR STAR LC24-20 PRINTER ... 6.99
RIBBON (COLOUR) FOR CITIZEN 9, 90, 24, 200, 224, 240 OR ABC ... 14.99
RIBBON (COLOUR) FOR EPSON LQ-150 ... 16.99
RIBBON (COLOUR) FOR PANASONIC KXP2123/4, KXP2180 ... 16.99
RIBBON (COLOUR) FOR STAR LC100 PRINTER ... 7.99
RIBBON (COLOUR) FOR STAR LC200 PRINTER ... 11.99
PRINTER STAND FOR ANY PRINTER ... 7.99
PRINTER LEAD (PARALLEL) 1.5 METRES FOR AMIGA, ST OR PC ... 7.99
PRINTER LEAD (PARALLEL) 10 METRES FOR AMIGA, ST OR PC ... 15.99
PRINTER LEAD (PARALLEL) 5 METRES FOR AMIGA, ST OR PC ... 10.99
DUST COVER FOR 80 COLUMN PRINTER (CLEAR PVC) ... 4.99



SEGA MULTIMEGA PORTABLE MEGADRIVE & MEGA CD. IT'S REALLY A SMART PIECE OF KIT
325.99

MEGADRIVE GAMES

WE ONLY SELL GENUINE UK VERSIONS

ALADDIN ... 39.99
ARIEL - THE LITTLE MERMAID ... 13.99
BARKLEY SHUT UP AND JAM! ... 29.99
BUBBA 'N' STIX • ... 35.99
CHAOS ENGINE • ... 38.99
CHUCK ROCK ... 17.99
COMBAT CARS • ... 22.99
CORPORATION ... 17.99
DRAGON • ... 40.99
DUNE 2 (BATTLE OF ARRAKIS) 31.99
EA SPORTS SOCCER (FIFA) ... 36.49
ECCO (DOLPHIN) ... 30.49
ETERNAL CHAMPIONS ... 47.99
EURO CLUB SOCCER ... 15.99
F22 INTERCEPTOR ... 18.99
FLASHBACK ... 35.99
FORMULA ONE RACING ... 38.99
GODS ... 17.99
GOLDEN AXE 2 ... 15.99
GREATEST HEAVYWEIGHTS ... 47.99
GUNSTAR HEROES ... 26.99
HARDBALL '94 • ... 32.99
INCREDIBLE HULK • ... 38.99
INTERNATIONAL RUGBY ... 31.99
JOHN MADDEN '93 ... 16.99
JOHN MADDEN & EA ICE HOCKEY 19.99
JUNGLE BOOK • ... 40.99
JUNGLE STRIKE ... 35.99
LANDSTALKER ... 49.99
LETHAL ENFORCERS (WITH GUN) 54.99
LOTUS TURBO CHALLENGE ... 17.99
MEGA GAMES 1 (WORLD CUP ITALIA '90, COLUMNS, SUPER HANG ON) ... 19.99
MICKEY AND DONALD ... 19.99
MICKEY MOUSE ... 17.99
MICRO MACHINES ... 28.49
MORTAL KOMBAT ... 32.99
NBA JAM ... 42.99
NHL HOCKEY '94 ... 36.49
NHL PA ICE HOCKEY '93 ... 19.99
PETE SAMPRAS TENNIS (J-CART FOUR PLAYER GAME) • ... 34.99
PGA EUROPEAN TOUR ... 32.99
POPULOUS ... 24.99
R.B.I. BASEBALL '94 • ... 36.99
ROAD RASH ... 14.99
ROAD RASH 2 ... 19.99
ROBOCOD (JAMES POND 2) ... 14.99
SENNA SUPER MONACO ... 17.99
SENSIBLE SOCCER ... 30.99
SENSIBLE INTERNATIONAL • ... 37.99
SONIC 1 ... 13.99
SONIC 2 ... 19.99
SONIC 3 ... 43.99
SONIC SPINBALL ... 29.99
SPEED RACER • ... 29.99
SPEEDBALL 2 ... 16.99
STREETFIGHTER 2 CHAMPIONSHIP 39.99
STREETS OF RAGE 2 ... 24.99
STREETS OF RAGE 3 • ... 39.99
SUPER KICK OFF ... 19.99
SUPER MONACO GP ... 13.99
TAZMANIA ... 17.99
TERMINATOR ... 19.99
TOE JAM AND EARL 2 ... 39.99
URBAN STRIKE • ... 34.99
VIRTUA RACING • ... 57.99
X-MEN ... 18.99
XENON 2 ... 13.99



GAME GEAR SONIC 2 AND 4 GAMES 79.99
WITH SONIC 2, COLUMNS, TENNIS, PENALTY KICK & PAN AM RALLY ADD 8.99 FOR MAINS ADAPTOR

GAME GEAR GAMES

ALADDIN ... 24.99
CHAKAN • ... 23.99
COLUMNS ... 9.99
DESERT STRIKE ... 24.49
INDIANA JONES 3 • ... 22.99
MICRO MACHINES ... 24.99
NBA JAM ... 28.99
PETE SAMPRAS TENNIS • ... 22.99
PINBALL WIZARD • ... 22.99
SENSIBLE SOCCER ... 22.99
SMASH TV • ... 22.99
SONIC 2 ... 14.99
SONIC CHAOS ... 24.49
X-MEN • ... 23.99



SUPER NES & MARIO ALL STARS GAMES + SCOPE SIX LIGHT GUN & SIX GAMES. YES! SNES + GUN + 10 GAMES
114.99

SUPER NES GAMES

WE ONLY SELL GENUINE UK VERSIONS

ALADDIN ... 41.99
ALIEN VS PREDATOR • ... 38.99
BARKLEY SHUT UP AND JAM! • ... 32.99
BATMAN RETURNS ... 26.99
CHAOS ENGINE • ... 43.99
CLAYFIGHTERS ... 41.99
DESERT FIGHTER ... 39.99
DRAGON • ... 40.99
EQUINOX ... 39.99
FIFA SOCCER ... 36.99
FLINTSTONES • ... 39.99
INCREDIBLE HULK • ... 42.99
JOHN MADDEN '93 ... 19.99
JUNGLE BOOK • ... 40.99
JURASSIC PARK ... 39.99
KRUSTY'S FUN HOUSE ... 19.99
LEGEND OF THE MYSTICAL NINJA 38.99
LETHAL ENFORCERS (WITH GUN) 64.99
MARIO ALL STARS ... 39.99
MEGA MAN X • ... 32.99
MORTAL KOMBAT ... 32.99
NBA JAM ... 50.99
NHLPA '93 ICE HOCKEY ... 24.99
PACATTACK • ... 32.99
PGA TOUR GOLF ... 19.99
ROCK AND ROLL RACING ... 37.99
SENSIBLE SOCCER ... 39.99
SENSIBLE INTERNATIONAL • ... 34.99
SIM CITY ... 19.99
SMASH TENNIS • ... 40.99
SPEED RACER • ... 32.99
STARWING ... 19.99
STREETFIGHTER 2 ... 34.99
STREETFIGHTER TURBO ... 32.99
SUNSET RIDERS ... 26.99
SUPER BOMBERMAN ... 35.99
SUPER MARIO KART ... 33.99
SUPER METROID • ... 41.99
WORLD LEAGUE BASKETBALL 17.99
YOUNG MERLIN ... 47.99
ASK ABOUT GAMEBOY



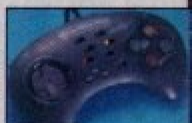
AMIGA CD32

CD BASED CONSOLE WITH A1200 32-BIT POWER. 262,000 COLOURS FROM A PALLETTE OF 16.7 MILLION, 2 MB RAM, FAST 14 MHz 68020 PROCESSOR. PLAYS AUDIO CD's VIA ON SCREEN DISPLAY AND DIGITAL VIDEO CD's WITH OPTIONAL FMV ADAPTOR.

AMIGA CD32 SPECTACULAR VOYAGE PACK WITH MICROCOSM AND CHAOS ENGINE ... **230.00**
PLUS TWO PACK INCLUDES ELITE 2 AND TRIVIAL PURSUIT CD's. AVAILABLE ONLY WHEN YOU BUY A CD32 ... JUST ADD ... **29.99**
COMMODORE FULL MOTION VIDEO-CD MODULE FOR AMIGA CD32. GIVES CD32 HIGH QUALITY FULL MOTION VIDEO CAPABILITY FOR MOVIES, MUSIC VIDEOS AND GAMES THAT FEATURE FULL MOTION VIDEO GAMEPLAY. SIMPLY SLOTS INTO BACK OF CD32. ... **199.99**



COMMODORE CONTROL PAD 16.99



DYNAMICS CONTROL PAD FOR CD32 **16.99**



QUICKSHOT SOUNDMATE 4 STEREO SPEAKERS (PAIR) FOR AMIGA, CD32 OR PERSONAL STEREO. VOLUME AND BALANCE CONTROL, BASS AND TREBLE BOOST, 4W+4W MUSIC **16.99**

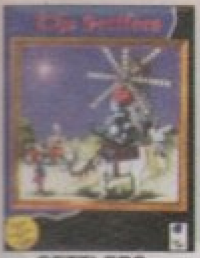


SCREENBEAT 3 STEREO SPEAKERS (PAIR) FOR AMIGA, CD32 OR PERSONAL STEREO **13.99**



SONY SRSA30 PORTABLE SPEAKERS WITH BUILT IN AMPLIFIER, ON/OFF SWITCH, VOLUME CONTROL, 65MM DIAMETER SPEAKERS. IDEAL FOR USE WITH WALKMAN, DISCMAN, CD32 OR AMIGA. ... **34.99**

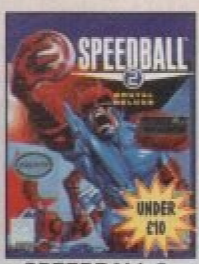
HI-FI AUDIO LEAD - AMIGA/CD32/ST TO STEREO ... 3.99
MEDIA LIFE CD FILE DRAWER (30 CAPACITY) ... 15.99
SCREENBEAT MAINS ADAPTOR FOR SCREENBEAT SPEAKERS ... 7.99



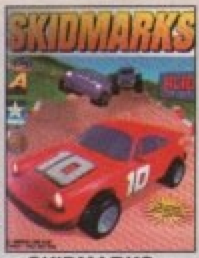
SETTLERS
23.49



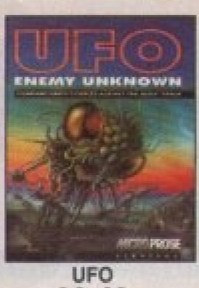
SPACE LEGENDS
9.99



SPEEDBALL 2
6.99



SKIDMARKS
17.49



UFO
23.49



K240
18.49



BEST DEALS ON AMIGA A1200

ALL A1200's INCLUDE
MOUSE, BUILT-IN TV MODULATOR
2 MB RAM EXPANDABLE TO 10 MB
FAST 14 MHz 68020 PROCESSOR
NEW AGA GRAPHICS CHIP SET
256,000 SCREEN COLOURS FROM 16.7 MILLION
4 CHANNEL STEREO SOUND
BUILT IN FLOPPY DISK DRIVE
BUILT IN INTERNAL HARD DRIVE INTERFACE (IDE)
AND 1 YEAR IN-HOME SERVICE WARRANTY

AMIGA A1200 2/0 COMBAT INNOVATIONS
WITH WORDWORTH 2.0 AGA DESKTOP PUBLISHER, PERSONAL PAINT IV AGA, PRINT MANAGER, DAY BY DAY, TOTAL CARNAGE, BRIAN THE LION AND ZOOL 2 ....310.00

AMIGA A1200 COMBAT INNOVATIONS PACK
AS ABOVE WITH INTERNAL 2.5" HARD DRIVE
A1200 2/80 COMBAT + 80 MB DRIVE 475.00
A1200 2/120 COMBAT + 120 MB DRIVE 520.00
A1200 2/170 COMBAT + 170 MB DRIVE 540.00
ADD A PLUS, FOUR OR CHAOS PACK IF YOU WISH
FOR HARD DRIVE PACKS PLEASE PHONE TO CHECK
LATEST PRICE AND AVAILABILITY

AMIGA A1200 2/0 LEMMINGS 2 PACK
WITH LEMMINGS 2 AND DELUXE PAINT 3 ...270.00

AMIGA A1200 LEMMINGS 2 PACK
AS ABOVE WITH INTERNAL 2.5" HARD DRIVE
A1200 2/80 LEMMINGS + 80 MB DRIVE 420.00
A1200 2/120 LEMMINGS + 120 MB DRIVE 470.00
A1200 2/170 LEMMINGS + 170 MB DRIVE 490.00
PRICES INCLUDE LEMMINGS 2 AND DELUXE PAINT 3

•••VERY SPECIAL DEAL•••

ADD A PLUS FOUR OR CHAOS PACK
WHEN YOU BUY ANY OF THE AMIGAS LISTED ABOVE YOU CAN ALSO PURCHASE ONE (ONLY ONE) OF THESE AMAZING VALUE PACKS

PLUS FOUR PACK
(ELITE 2, BATMAN RETURNS, LEMMINGS 2 & CIVILISATION AGA) JUST ADD 29.99

CHAOS PACK A1200
(CHAOS ENGINE, NICK FALDO GOLF, PINBALL FANTASY & SYNDICATE) JUST ADD 24.99

A600's WHILE STOCKS LAST

A600 COMPUTER WITH MOUSE, BUILT IN TV MODULATOR, 1 MB RAM EXPANDABLE TO 10 MB STEREO SOUND BUILT IN FLOPPY DISK DRIVE BUILT IN INTERNAL HARD DRIVE INTERFACE (IDE) AND 1 YEAR IN-HOME SERVICE WARRANTY

AMIGA A600 1/0 WILD, WEIRD AND WICKED PACK
WITH DELUXE PAINT 3, F1 GRAND PRIX, PUSH OVER AND PUTTY 190.00
OR AS ABOVE WITH A600 CHAOS PACK (CHAOS ENGINE, NICK FALDO GOLF, PINBALL FANTASY & SYNDICATE) JUST ADD 24.99



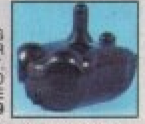
SWIFT TP200 JOYPAD FOR AMIGA/ST, TURBO FIRE AND AUTOFIRE
9.99



COMPETITION PRO EXTRA JOYSTICK FOR AMIGA/ST CLEAR BASE, MICROSWITCHED WITH AUTOFIRE
11.99



QUICKSHOT 137F PYTHON JOYSTICK FOR AMIGA/ST. AUTOFIRE
9.99



CHEETAH BUG JOYSTICK FOR AMIGA/ST. MICROSWITCHED WITH AUTOFIRE
13.99



SCORPION PLUS JOYSTICK FOR AMIGA/ST ARCADE STYLE WITH TURBO FIRE
10.99



QUICKSHOT 128F MAVERICK 1 JOYSTICK FOR AMIGA/ST. AUTOFIRE
11.99



FREEWHEEL STEERING WHEEL (DIGITAL) SUITS MOST DRIVING GAMES
25.99



SAITEK MEGAGRIP 2 JOYSTICK FOR AMIGA/ST. AUTOFIRE
11.49



SUPER PRO ZIP STICK JOYSTICK FOR AMIGA/ST. MICROSWITCHED WITH AUTOFIRE
11.99



BOLLISTICK HAND HELD MICRO-SWITCHED AUTOFIRE
10.99



QUICKJOY JET FIGHTER MICRO-SWITCHED AUTOFIRE
11.99



QUICKSHOT 155 AVIATOR 1 FOUR FIRE BUTTONS, DUAL SPEED AUTOFIRE
12.99



QUICKSHOT 149 INTRUDER 1 OMNI-DIRECTIONAL GRIP, TWO FIRE BUTTONS, DUAL SPEED AUTOFIRE
12.99

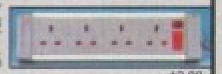
QUICKJOY FOOT PEDAL FOR AMIGA OR ST (NOT SHOWN) 13.99

MEMORY

512K AMIGA RAM NO CLOCK FOR A500 OR A500+ ...17.99
512K AMIGA RAM + CLOCK FOR A500 OR A500+ 19.99
1 MB A500 PLUS RAM UPGRADE + CLOCK 37.99
1 MB A600 RAM UPGRADE + CLOCK 46.99
4 MB PCMCIA UPGRADE FOR A600 OR A1200. PLUGS DIRECTLY INTO SMART CARD SLOT 169.99
OMEGA FPU + 4 MB RAM FOR AMIGA A1200. SPECIFICATION AS FOR OMEGA RAM BUT WITH ADDITIONAL 68881 FLOATING POINT UNIT FOR MATHS AND GRAPHICS ACCELERATION 209.99

LEADS

ANTI-SURGE 4 WAY MULTIPLUG EXTENSION PROTECTS AGAINST ELECTRICAL SURGES. 26.99



ANTI-SURGE PLUG 12.99
HI-FI AUDIO LEAD - AMIGA/CD32/ST TO STEREO (1.5 METRES, 2 X PHONO PLUGS TO 2 X PHONO PLUGS) CAN ALSO BE USED TO CONNECT STEREO VIDEO TO HI-FI, AND HI-FI SEPARATES TOGETHER 3.99
JOYSTICK SPLITTER CABLE FOR AMIGA OR ST. CONNECTS 2 JOYSTICKS TO 1 PORT 6.99
ROBOSHIFT INTERFACE FOR AMIGA OR ST PLUGS MOUSE AND JOYSTICK INTO ONE PORT ...13.99
PORT EXTENSION ADAPTOR FOR AMIGA OR ST (PACK OF TWO) EXTENDS BY 21 CM 6.99
ANALOGUE JOYSTICK ADAPTOR FOR AMIGA ALLOWS ANY 15-PIN PC JOYSTICK TO BE USED WITH GAMES THAT FEATURE ANALOGUE CONTROL 7.99
NULL MODEM CABLE (CONNECTS 2 COMPUTERS FOR HEAD TO HEAD PLAYING ON CERTAIN GAMES SUCH AS POPULOUS, FALCON, KNIGHTS OF THE SKY, FORMULA 1 GRAND PRIX AND VROOM) 9.99
PRINTER LEAD (PARALLEL) 1.5 METRES 7.99
SCART LEAD - AMIGA CD32 TO TV WITH SCART INPUT. REQUIRES TV WITH MANUAL SCART CHANNEL 9.99
SCART LEAD - AMIGA TO GOLDSTAR TV 9.99
SCART LEAD - AMIGA TO PHILIPS TV 9.99
SCART LEAD - AMIGA TO SAMSUNG 9.99
SCART LEAD - AMIGA TO SONY TV 9.99
SCART LEAD - AMIGA TO TOSHIBA/HITACHI TV 9.99
SCART LEAD - AMIGA TO TV WITH SCART INPUT 9.99
TV LEAD - AMIGA CD-32 TO SVHS TV OR VIDEO 9.99
MONITOR LEAD - CD32 TO CM8833 1084S 9.99
MONITOR LEAD - AMIGA TO CM8833 1084S 9.99
ZYDEC AMIGA POWER SUPPLY (SPECIAL COOL RUNNING TRANSFORMER) 32.99

COMPUTER CARE

CLEANING KIT FOR COMPUTERS (WITH VACUUM) 17.99
DUST COVER FOR 80 COLUMN PRINTER (CLEAR) ...4.99
DUST COVER FOR A1200 (CLEAR PVC) 4.99
DUST COVER FOR A600 (CLEAR PVC) 4.99
DUST COVER FOR A500 OR ATARI ST (CLEAR PVC) 4.99
DUST COVER FOR MONITOR (CLEAR PVC) 5.99
MOUSE HOUSE (HANDY PLACE TO STORE YOUR MOUSE) ...4.49

CONTROL CENTRES

PREMIER CONTROL CENTRE FOR AMIGA 1200. (STEEL MONITOR STAND WITH EXTRA SHELF FOR EXTERNAL DISK DRIVE AND ACCESSORIES) 39.99
PREMIER CONTROL CENTRE FOR AMIGA A500 ....39.99
PREMIER CONTROL CENTRE FOR AMIGA A600 ....34.99

DIGITISERS SAMPLERS SCANNERS

TECHNOSOUND TURBO 2 SOUND SAMPLER REAL TIME SPECIAL EFFECTS. WORKS WITH ANY AMIGA. 1 MB RAM REQUIRED 26.99
VIDI AMIGA 12 (AGA COMPATIBLE, CAPTURES COLOUR IMAGES FROM VIDEO MACHINE OR CAMCORDER. COMPATIBLE WITH TAKE 2, DELUXE PAINT 4 AND MOST ART PACKAGES) 89.99
ZYDEC HANDY SCANNER FOR ANY AMIGA. 100-400 DPI HIGH QUALITY RESOLUTION, 64 SIMULATED GREYSCALES. INCLUDES DAATASCAN PROFESSIONAL SOFTWARE 95.99

AMIGA A4000/030 4/214 25 MHz. 4 MB RAM EXPANDABLE TO 16 MB 214 MB IDE HARD DRIVE. NEW AGA CHIPSET. 262,000 COLOURS ON SCREEN FROM PALETTE OF 16.7 MILLION. WITH DELUXE PAINT IV AGA, WORDWORTH 2 AGA & DIGITA PRINT MANAGER. 1 YEAR ON-SITE WARRANTY 995.99

NEW LOW PRICES



OVERDRIVE HIGH SPEED HARD DRIVES FOR AMIGA A1200

"THE FASTEST DRIVE EVER REVIEWED BY CU"
3.5" QUALITY IDE HARD DRIVE, AVERAGE ACCESS TIME 12MS, STYLED TO MATCH AMIGA
EASY INSTALLATION - PLUGS INTO PCMCIA SLOT
AQ TOOLS AND 1 YEAR WARRANTY
DOES NOT INVALIDATE WARRANTY

OVERDRIVE 170 MB EXTERNAL HARD DRIVE FOR AMIGA A1200 ....209.99
OVERDRIVE 210 MB EXTERNAL HARD DRIVE FOR AMIGA A1200 ....239.99
OVERDRIVE 250 MB EXTERNAL HARD DRIVE FOR AMIGA A1200 ....259.99
OVERDRIVE 340 MB EXTERNAL HARD DRIVE FOR AMIGA A1200 ....309.99
OVERDRIVE 420 MB EXTERNAL HARD DRIVE FOR AMIGA A1200 ....349.99

INTERNAL HARD DRIVES FOR AMIGA A1200 & A600

HARD DRIVES: HIGH SPEED 2.5" DRIVE, 15 MS ACCESS TIME (APPROX). 1 YEAR WARRANTY. KIT COMPLETE AND EASY TO FIT. DRIVES FULLY PREPARED
NOTE THAT OPENING YOUR AMIGA MAY INVALIDATE THE WARRANTY.

64MB INTERNAL HARD DRIVE 32K CACHE (CONNER) FOR AMIGA A1200 ....135.99
64MB INTERNAL HARD DRIVE 32K CACHE (CONNER) FOR AMIGA A600 ....135.99
80MB INTERNAL HARD DRIVE 64K CACHE (IBM) FOR AMIGA A1200 ....149.99
80MB INTERNAL HARD DRIVE 64K CACHE (IBM) FOR AMIGA A600 ....149.99
120MB INTERNAL HARD DRIVE 64K CACHE (AREAL) FOR AMIGA A600 ....189.99
120MB INTERNAL HARD DRIVE 64K CACHE (AREAL) FOR AMIGA A1200 ....189.99



SCART TV's AND MONITORS

Connect your Amiga or CD32 to a TV with SCART input for a pixel-perfect monitor-quality picture.

GOLDSTAR CI14A80 14" COLOUR SCART TV/MONITOR WITH REMOTE CONTROL AND SCART INPUT, ON SCREEN DISPLAY, AUTO POWER OFF, SLEEP TIMER, ON TIMER, CHILD LOCK.
FREE SCART LEAD 169.99
(STATE AMIGA, CD32, MEGADRIVE 1 OR 2, OR SNES)

SONY KVM1400 14" FST COLOUR SCART TV/MONITOR WITH REMOTE CONTROL 60 CHANNEL TUNING, REAR SCART INPUT HEADPHONE SOCKET, TWO POSITION TILT BLACK TRINITRON SCREEN, LOOP AERIAL
SONY KVM1400 (GREY) 194.99
SONY KVM1400 (WHITE) 194.99
SONY KVM1401BL FASTEXT 244.99
FREE SCART LEAD
(STATE AMIGA, CD32, ST, MEGADRIVE 1 OR 2, OR SNES)





MICROVITEC 1438 MULTI-SYNC MONITOR
FOR AMIGA A1200/A4000 OR PC. COMPLETE WITH STEREO SPEAKERS. 0.28 DOT PITCH RESOLUTION, 15 PIN RGB DIN PLUG. AMIGA ADAPTOR PLUG INCLUDED. SUITS ALL AMIGA AGA AND ALL PC SCREEN MODES TO SVGA. 1 YEAR WARRANTY. 299.99



DISK DRIVES

EXTERNAL 3.5" DISK DRIVE FOR ANY AMIGA WITH SONY/CITIZEN DRIVE MECHANISM. 880K FORMATTED, QUIET, HIGH QUALITY, SLIM LINE DESIGN, COLOUR MATCHED METAL CASE AND LONG REACH CABLE 49.99
ZYDEC INTERNAL 3.5" DISK DRIVE FOR AMIGA A500 OR A500+ REPLACES EXISTING DRIVE (INVALIDATES WARRANTY) 49.99



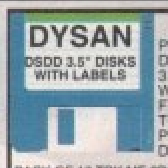
ALFA MEGAMOUSE 2 FOR AMIGA OR ST. 260 DPI, HIGH QUALITY MOUSE
11.99



EKLIPSE MOUSE, FOR AMIGA OR ST 290 DPI MICROSWITCHED
9.99



MOUSE MAT WITH SPONGE BACKING
4.99



BLANK DISKS

PACK OF 10 DYSAN DOUBLE DENSITY 3.5" DISKS + CASE. WITH LABELS & FREE PLASTIC FLIP TOP DISK BOX 5.99
PACK OF 50 DYSAN DSDD DISKS ...19.99
PACK OF 10 TDK MF-2DD 3.5" DISKS ...7.99

DISK BOXES

DISK BOX 3.5" (120) LOCKABLE 9.99
DELUXE DISK BOX 3.5" (80) LOCKABLE, DIVIDERS 9.99
MEDIA LIFE FILE DRAWER, STACKABLE
100 3.5" DISKS 13.99
200 3.5" DISKS 15.99
30 CD's 15.99

SNES + MARIO ALL STARS + SCOPE 6. ... ... 114.99
MEGADRIVE 1 WITH SONIC 2 + TWO PADS 95.99
MEGA CD 1 WITH ROAD AVENGER 199.99
MEGADRIVE 2 WITH SONIC 3 + TWO PADS ... 124.99
MEGA CD 2 WITH SEVEN GAMES... ... ... 224.99
ATARI JAGUAR 64-BIT CONSOLE WITH JOYPAD & CYBERMORPH GAME GENUINE UK VERSION 229.99
GAME GEAR WITH SONIC 1 AND 4 GAMES ... 74.99
MAINS ADAPTOR FOR GAME GEAR 8.99
QUICKSHOT SUPERVISION WITH CRYSTBALL 19.99
ATARI LYNX 2 WITH BATMAN RETURNS, MAINS ADAPTOR AND CASE... ... ... 94.99
MAINS ADAPTOR FOR ATARI LYNX OR LYNX 2... 9.99
GAMEBOY WITH BATTERIES... ... ... 39.99
GAMEBOY WITH TETRIS & SUPER MARIO LAND 57.99

JOIN now from just £4.00

Special Reserve
The Discount Club

READ Special Reserve Magazine
48 Page colour club magazine sent bi-monthly to members
CHOOSE from our Huge Selection
From leads to PC's and thousands of games for all formats
BUY at Best Possible Prices
Just one purchase will normally save you the cost of joining
SAVE with our Special Deals
Always hundreds of Special Reserve Offers on TOP products
SAVE MORE with our XS Coupons
Money-off coupons worth over £180 a year off classic games
AND ENTER our FREE competitions
Six reasons why over 200,000 people have joined Special Reserve, the biggest games club in the World!

We only supply members but you can order as you join
Just send in the form below or phone. There's no obligation to buy.

0279 600204

OPEN to 8pm DAILY or by Fax on: 0279 726842
FREE 16-PAGE COLOUR CATALOGUE - JUST ASK



CLUB SHOPS
OPEN 10am TIL 8pm SEVEN DAYS A WEEK!
CHELMSFORD - 43 Broomfield Rd
just around the corner from the bus station
SAWBRIDGEWORTH - The Maltings
200 yards from the train station

MEMBERSHIP FEES	6 MONTHS MEMBERSHIP	ONE YEAR MEMBERSHIP	TWO YEARS + FREE HARD BINDER
UK MEMBERS	4.00	7.00	14.00
OVERSEAS EC MEMBERS	6.00	9.00	18.00
OVERSEAS WORLD MEMBERS	7.00	11.00	22.00

WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN.
All prices include VAT and carriage to UK mainland. See base of order form for overseas surcharges. We supply hardware orders to UK mainland addresses only.
(PLEASE PRINT IN BLOCK CAPITALS) MAIN AMIGA COMPUTING

Name ____________________
Address ____________________
____
__________ Postcode __________
Phone __________ Machine __________
Enter membership number (if applicable) or
NEW MEMBERSHIP FEE (ANNUAL UK 7.00)
item ____________________
item ____________________
item ____________________
ALL PRICES INCLUDE UK POSTAGE & VAT £
Cheque/P.O./Access/Mastercard/Switch/Visa (Switch Issue No______)

Card expiry date__________ Signature__________
Cheques payable to: **SPECIAL RESERVE**
P.O. BOX 847, HARLOW, CM21 9PH

Overseas Orders Surcharge
(EC or World) **Software orders please add £2.00 per item.Non - software items please add 25%. Hardware items supplied to UK mainland only.**
Overseas orders must be paid by credit card.

Order/Confirmation/Receipt sent for every order.
We only supply official UK products. Official suppliers of all leading brands.
We sell games and peripherals all at amazing prices for Megadrive, Mega CD, Master System, Game Gear, Super NES, Gameboy, NES, Lynx, Amiga, Atari ST, PC, CD ROM, CDi, CD32 and Apple Mac.
Inevitably some games listed may not yet be available.
Please phone sales on 0279 600204 to check availability before ordering.
We reserve the right to change prices and offers without prior notification.
PRICES CORRECT AT TIME OF GOING TO PRESS. 5.7.94 E & O.E.
Inter-Mediates Ltd, 2 South Block, The Maltings, Sawbridgeworth, Herts. CM21 9PG.

• FREE FOR ALL •

Anybody can enter. Anybody can WIN!

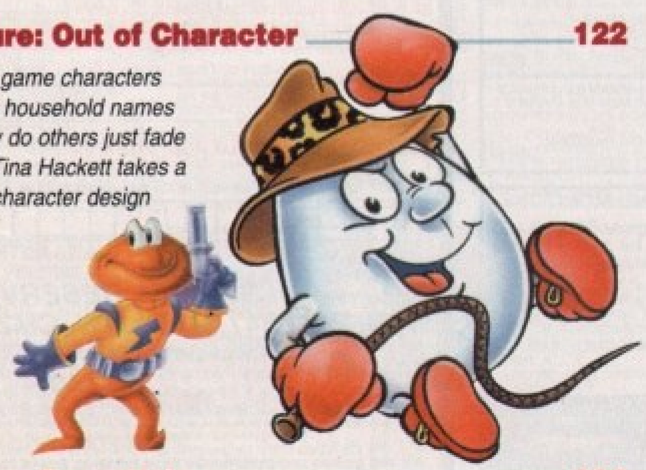
WIN A PANASONIC 3DO

Just answer the following questions
Can a 3DO play audio CD's?__________
What is your name?__________
What is your telephone no?__________
Then cut out this coupon and send it with or without an order to:
SPECIAL RESERVE, P.O. BOX 847, HARLOW, CM21 9PH
Closing Date: October 1st 1994. First correct answer selected at random will receive a state-of-the-art Panasonic 3DO system plus software worth around £400. Competition winners will be listed in the club magazine or available on request.
MAIN AMIGA COMPUTING

Contents

System

The essential guide to Amiga gaming



Game Reviews

Reviews

Features





Next issue on sale August 25

COVER STORY



let there be light

Stevie Kennedy test renders Lightwave PAL, the most powerful 3D creator for the Amiga and talks to the people behind Robocop the series

See page 32

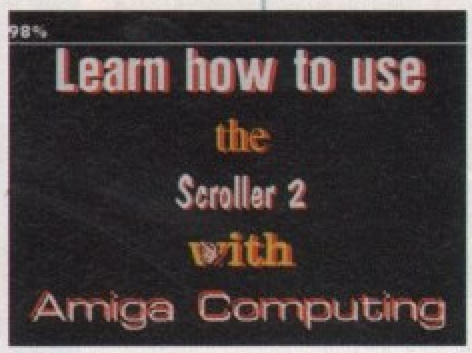
The Coverdisk

Page 22

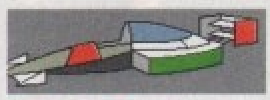


Scroller2

Create slick, scrolling text effects and genlock them onto your favourite videos using our exclusive and fully operational Scroller2 program from The Soft Alternative







F1 Grand Prix Editor
An essential addition to Geoff Crammond's masterpiece, F1GP Ed allows you to customise your game

Midnight *(Workbench 2 and above)*
The ultimate screen blanking program featuring ten superb blankers

AMenu *(Workbench 2 and above)*
Negotiate Workbench with the greatest of ease with this classic silicon menu system

ZX Spectrum
Relive those grand old 8-bit days with the best ZX Spectrum emulator for the Amiga. Free game included

MTV
Bring the classic music channel onto your Amiga free of charge

Regulars

Subscriptions



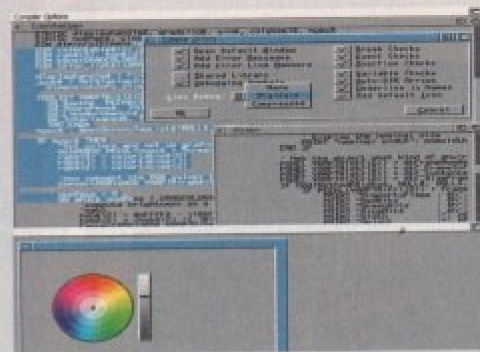
Turn to page 58

for details of the new Amiga books offer available when you subscribe to Amiga Computing

Software that matches your Hardware

Programming

HiSoft BASIC 2 £79.95



HiSoft BASIC 2 is the new BASIC system for your Amiga, fully compatible with all Amigas from a Workbench 1.3 A500 up to an A4000 tower system running Workbench 3.

This exciting package sets new standards for BASIC programmers on the Amiga with full AGA and Workbench 3 support through the use of extensive and complete libraries.

This is the system for those who want to program real applications and utilities on their computer - a professional BASIC interactive compiler with an easy-to-use, multi-window editor and medium level debugger, producing super-fast, compact code in memory (for testing) or direct to disk.

The HiSoft BASIC 2 package runs on all Amigas with 1Mb of memory or more and includes an extensive, 640-page user manual with tutorials, many examples and a complete reference section.

Upgrades are available from HiSoft BASIC version 1 and Power BASIC - please call for details.

Get the Amiga BASIC of the 90s today!

Utilities

Maxon Magic



The Maxon Magic screen saver works in all modes, even with graphic cards, and offers you a choice of 20 different amusing and entertaining modules such as Aquarium, Flying Breakfast, Fireworks, Crazy Worms, Messages, Clock etc.

This is the utility that you simply must own! Maxon Magic is a funtastic combination of 20 different animated screen savers, a system event sound manager and many amusing sampled sounds that will not only be incredibly useful but will give you and your friends endless enjoyment as well.

As if that isn't enough value for money, Maxon Magic also lets you assign sounds to most system events including Window/Screen open & close events, Alerts, Keys, Mouse clicks, Requesters and more. Choose from the many sounds provided or simply use your own sampled IFFs, created with a sound sampler such as Megalosound!

Only £29.95

With Maxon Magic your Amiga will never look or sound the same again!

Video/Music

VIDEOMASTER



The best-value real-time video digitiser you can buy; VideoMaster gives you the ability to record real-time monochrome video with sound at 25 frames per second as well as quality full-screen stills from your camcorder or video recorder. VideoMaster RGB includes our new colour splitter, ColourMaster, and produces amazing quality colour stills.

VideoMaster AGA works on the A1200 and A600, connects via the PCMCIA slot for extra speed and freedom to use other peripherals, allows high quality stereo sound and supports HAM6 and HAM8 up to 640 x 512 resolution for stills.

ColourMaster

ColourMaster is a new electronic colour splitter which works in conjunction with VideoMaster for stunning colour stills.

Clarity



Clarity16 is our premier sound sampler allowing rates up to 32KHz in 16 bit stereo and up to 48KHz in 16 bit mono on an A500; accelerated machines can handle faster sampling rates. The software provides extensive features including full edit control, a MIDI keyboard emulator, a sample sequencer, many special effects and FFT analysis. Version 1.5 has an up-to-date Workbench 3 look, in its own window and is fully compatible with faster Amigas.

MegaloSound

Megalosound is the new 8-bit, stereo, direct-to-disk sampler package; the software is packed full of easy-to-use editing features, special effects and extras such as the ability to print waveforms and sample information.

The package allows sampling up to 84KHz mono and 56KHz stereo to memory and up to 21KHz stereo to hard disk on an A1200. Supplied with a hardware volume control and an extensive 144-page manual, Megalosound is impressive value at only £34.95.

All special offers extended until 31 August

Simulation

ProFlight



The classic Tornado simulator that works on all Amiga computers and provides maximum realism while being tremendous fun to play.

ProFlight is one of the most accurate, and therefore most flyable, aircraft simulators currently available for home computers - everything is there from the correct effect of the tailerons, elevators and rudder through complete navigational aids with auto-pilot up to sophisticated weaponry such as Sidewinder missiles and fly-to-line bombs. The accuracy of flight is top-notch, try this test with your other favourite simulator - turn the aircraft on its wing tips; most will continue to fly straight and level - the ProFlight Tornado will lose altitude, just like the real thing.

ProFlight comes complete with a professional, ring-bound, 190-page flight manual detailing all aspects of flying this exciting aircraft including a full tutorial and a history of the Tornado with archive photographs.

Limited Special Offers

As a very special offer to Amiga Computing readers we have some amazing bargains, available only until 31 July 1994 while stocks last. Order by phone or by mail and quote AC794QZ when ordering; please add £2 P&P.

Clarity16	*£79.95*
VideoMaster A500	*£49.95*
VideoMaster AGA	*£59.95*
VideoMaster A500 RGB	*£89.95*
VideoMaster AGA RGB	*£99.95*
ColourMaster	*£49.95*
ProFlight	*£10.00*

HiSoft
High Quality Software

The Old School Greenfield
Bedford MK45 5DE UK.
Tel +44 (0) 525 718181
Fax +44 (0) 525 713716

If you have difficulty obtaining any of our titles, just call, quoting your Access/Mastercard/Visa/Switch/Connect card number and expiry date and we will despatch the goods within 5 working days. For an extra £6 we will despatch the day of order by ParcelForce 24 hour service.

VISA Access

By ADAM PHILLIPS

Dixons dissent

Dixons, owners of the electrical chain stores, have pulled out of the Amiga market indefinitely. With the uncertain future of Commodore, it would appear that the retail company is waiting to see the outcome of any potential buyouts before deciding to restock.

"The situation is up for review as with any range, but the situation with Commodore is somewhat unusual", said Nicola Marsden, corporate affairs officer for the retail company.

On questioning Dixons about their future plans for the Commodore home computer and console range, Marsden added: "I couldn't give any commitment either way at this stage."

At Commodore's UK headquarters, David Pleasance, managing director, commented on Dixon's move: "It's very typical – Dixons have always been fine when they're friends with any manufacturer.

"Unfortunately, they have a nervousness about what is going to happen to the Amiga, so they sell off what they have in their stores and hold their breath, waiting until something happens. When the situation is good again, they return to the scene."

While, in the immediate future, Dixons' move may not bode well for Commodore's image in the eyes of the consumer, David Pleasance is confident about the eventual outcome: "I can't say I'm happy about what they are going to do... but I think it's a short-term situation".



David Pleasance: "... it's a short-term situation."

Changes at the top

Following the downturn in Commodore's fortunes and its subsequent liquidation, it was revealed that Medhi Ali, president of Commodore International, has left. While other key figures have been relieved of their jobs by the administrators brought in after the bankcruptcy, many have been re-employed as advisors.

According to David Pleasance of Commodore UK, Medhi Ali has left the company "because his services were no longer required". The two individuals selected to replace him are Hock Tan and Ed Goss.

There is also some speculation at the moment suggesting that Commodore's litigation against FMG and Steve Franklin, the former director of the UK division, are being dropped. This however was strongly denied by David Pleasance.



Medhi Ali: Now the former president of Commodore International

Commodore to save Commodore?

After months of waiting for a buyer to step in and rescue Commodore, *Computer Trade Weekly*, an industry paper, has revealed that a surprise buyout package created by current and former Commodore management may well be the business' most likely future.

The buy-out is said to have been formulated by lead figures in management, R&D employees in the US and a component manufacturer. If they succeed in buying the company, it is unlikely that that Commodore's subsidaries will survive.

The end result of such a deal is that the once American business would operate and be registered in Britain from Commodore's UK offices in Maidenhead. Hopes are that the management buy-out would see a more stable and small company structure emerging from the ashes of bankcrupcty.

Success for SyQuest

SyQuest Technology, suppliers of removable Winchester disk cartridges and associated drives, has settled its litigations with Iomega Corporation and Nomai S.A.

Under a definitive settlement agreement, SyQuest will receive royalty payments from the two companies in exchange for a licence of certain intellectual property rights relating to SyQuest 44MB and 85 MB 5.25in cartridges.

Also, according to SyQuest, hardware produced by Iomega and Nomai is being passed off by certain resellers as genuine SyQuest cartridges.

In some cases, Iomega and Nomai resellers have advertised what appear to be genuine SyQuest cartridges, sometimes with the logo or pictures of SyQuest cartridge packing.

However, when customers examine the cartridges sold, they turn out to be Iomega and Nomai cartridges instead.

To assist customers who have experienced damage to their SyQuest SQ555 and SQ5110 drives caused by the Iomega or Nomai cartridges, the company will honour its warranties on the drives if Iomega and Nomai pay for the cost of the repairs.

As a final sting in the tail, SyQuest will also sell its drives and cartridges to the two companies, who will be able, in turn, to offer dissatisfied customers suffering from damage by Iomega and Nomai cartridges genuine SyQuest products as replacements.

"We're pleased to settle these litigations on such a favourable basis," said David Everett, SyQuest's executive vice president of sales and marketing. " Iomega and Nomai have clearly recognised the superiority of SyQuest's Winchester technology.mn

"Our consistent legal position has been that manufacture and sale of cartridges by Iomega and Nomai illegally infringed SyQuest's intellectual property rights. Our position has now been vindicated."



SyQuest: Litigation finally resolved

NEWS BRIEFS

ICPG membership

The Independent Commodore Products Group is offering half year membership for six months up to the December 31 1994 for just £12 for potential UK members.

The 16-year-old group offers a wide range of services including a journal concerning Commodore and PC issues, free public domain software, regional groups, technical advice, bulletin boards and discounts.

For more information, contact John Bickerstaff at ICPG on 081-651 5436.

Show stoppers

The European Technology in Learning Show is appearing for the first time at the NEC and is targeted at both business and educational sectors. Running from the 16 to 18 November, the exhibition will cover a variety of subjects from the information superhighway to virtual reality classrooms.

For further details, call Julie Smith on 0254 676025.

Live

Live '94, the consumer electronics show, is being held at Earls Court from 20 to 25 September. The exhibition looks at not only computer games but television, video, photography and music equipment and more.

Tickets cost between £4-7 and can be pre-booked on 0891 500103.

Sweet talk

Dragonheart Press have announced the 1994 Poetry Competition whith the winning collection being published in an edition of the Internet-based journal Living Poets.

Budding technobards should write to Sean Woodward at 11 Menin Road, Allestree, Derby, DE3 2NL for an entry form.

Big bash

The BBC's Big Bash exhibition is coming to the NEC in Birmingham between the 6th – 9th October. Featuring a series of six distinctively themed "worlds" for the visitors to walk through that include fashion, sports and entertainment, the BBC are promising the event to be "the ultimate interactive show".

Contact the ticket hotline on 021-767 4111 for entry prices and bookings.

John Loader: "Yet again, in one of these raids we have referred material to police anti-pornography departments."



Private prosecution for piracy

The Crime Unit recently created by ELSPA to combat software theft has had its first success, with a private prosecution brought against pirateer Philip Richards. A private investigator working for the association discovered that Richards was illegally copying and selling games software.

The prosecution was brought following a visit by the investigator to Richards' home in December 1993. There, Richard copied and sold the ELSPA man four programs for the Amiga 1200. Police later raided the house and seized both computer equipment and over 2000 computer disks.

The magistrates at Kettering Magistrates Court in Northumberland found Richards guilty of breaching section 107 of the Copyright, Designs and Patent Act 1988. He was fined £75 for each of the four copied programs he attempted to sell, and was charged £250 costs.

Other successes are three raids carried out netting pirated CD software worth £10 million.

John Loader, chief investigator for the Crime Unit, said: "We warned that new low-cost CD-R copying equipment could potentially lead to huge losses for UK software producers and could lead to the distribution of high quality pornographic mate rial on CD.

"The retrieval of £10m worth of software on just 500 CDs perfectly illustrates the enormous threat posed to the commercial software industry."

Members of the public with information on illegal software should contact ELSPA on 0386 833810. All calls will be treated in confidence.

Blue ribbon pledges

Stateside company Blue Ribbon, makers of music and multmedia hardware and software, have promised to continue their support for Amiga owners in response to Commodore's recent liquidation.

Melissa Jordan Grey, Blue Ribbon's president stated: "I encourage [users] to get the most out of [their] Amiga investment. Our mutual support will ensure a bright future for the Amiga long after Commodore's issues have been resolved."



Blue Ribbon: Pledging their support for Amiga owners in the future

Video toaster and Robocop join forces

The new television series detailing the continuing adventures of metal law enforcer Robocop has recently finished its production cycle of 20 episodes.

Many of the visual effects within each show were created using a video toaster and an Amiga 4000. The graphics rendered and drawn include the interactive computer readouts on the monitors in the Robocruiser, in the Metro South squad room, and in the laboratories, among others.

"We also create the imaging in Robocop's visor for targeting, computer feeding and diagnostics," explains Lee Wilson, visual effects supervisor for the production," as well as the backgrounds for Diana's trip through Robocop's neuro-nets, and the original computer animation of the helicopter.

"In a merging of the two systems, the helicopter was built and animated in the computer using the Toaster and Lightwave 3D program and flown over Delta City."

Stephen Downing, executive producer of the series, explains how the Amiga 4000 ended up as part of the crew on the most expensive series produced in Canadian television history:

"Shortly into production Lee came to us and asked if we would buy this incredible piece of computer equipment. It was not in our budget, but we talked it out and SKYVISION decided to support the department, hoping the added computer would pay for itself.

"A few days after the toaster arrived I came into work to find the entire visual effects crew still in the department after pulling an all-nighter. The outstanding work they delivered saved the production time and money, creating elements we didn't have to sub-contract to other companies."

The series itself has already been syndicated to 110 countries worldwide and, for British Robocop followers, the intention at the moment is to release the series straight on to video and then to sell it to television.

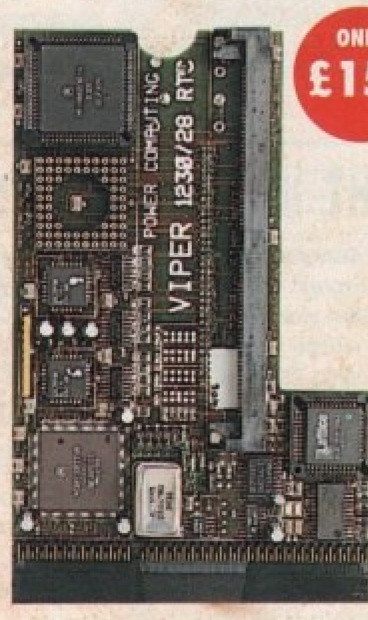


Robocop: Amiga technology at the cutting edge of television production

Viper 68030

VIPER 68030 TURBO I

- For the Amiga 1200 computer
- Full 030 with MMU running at 28MHz
- FPU running up to 50MHz
- Industry standard 72pin Simms
- RAM upgradable to 8MB
- Full Kickstart remapping (FastROM option)
- Optional SCSI-II adaptor
- 68882 Maths Co-processor
- On-board battery backed clock
- Faster than an Amiga 4000/030
- Up to a 440% speed improvement



ONLY £159

VIPER I

Standard £159
Viper I 2MB (no FPU).... £239
Viper I 4MB (no FPU) £309
Viper I 8MB (no FPU) £479

CO-PROCESSORS

20MHz FPU £25
33MHz FPU £60
40MHz FPU £80
50MHz FPU £120
SCSI-II Adaptor £79

Power Drives

XL 1.76MB DRIVE

The XL Drive can be used with any Amiga Computer, and allows you to store a massive 1.76MB on a high density disk. The drive also acts as a standard 880K drive and can read and write A4000 high density disks.

XL Drive 1.76MB External £89.95
XL Drive 1.76MB Internal £79.95
XL Drive 1.76MB Internal A4000 ..£89.95

INTERNAL DRIVES

We use the same drive mechanisms as Commodore.

PC881 A500 Internal drive £40
PC882 A2000 Internal drive £40
PC883 A600/1200 Internal drive £50

£60 inc. Blitz, Floppy Expand



£10 Cyclone*

POWER DRIVE

The Power Drive is the most impressive drive of its kind on the market and now includes Blitz Amiga and Floppy Expander. Floppy Expander allows you to compress files only on floppy disks by up to 50%.

SPECIAL OFFER

*For an extra ten pounds Cyclone copier can be purchased with the Power Drive.

Floppy Expander (Purchased separately) £9.95

POWER DRIVE FEATURES

	Power	Amitek
Anti-click	●	●
Anti-virus	●	●
Floppy Expader*	●	
Sony mechanism	●	●
Isolation switch	●	●
2 year guarantee	●	●
Thru'port	●	●
Upgradable to 1.76MB	●	
Cyclone compatible chip	●	
Built-in backup hardware	●	
Amiga Format Gold	●	
Blitz Compatible	●	
Disk drive modification by Sony to stop flickering LED	●	

Beware, flickering LED's on your disk drive mean that the drive has not been modified by Sony for 100% Amiga compatibility.

All prices include VAT and are subject to change without notice. Prices correct for month of publication only. Delivery extra. E & OE.

Power Computing Ltd
44a/b Stanley Street, Bedford MK41 7RW
Tel 0234 273000 **Fax** 0234 352207

Compuserve services and membership are growing

According to details released by the American-based on-line service Compuserve, membership in Britain is growing at the rate of more than 1,000 per week and is currently in excess of 48,000.

"More and more people are finding out what we early on-line members know – on-line services are key resources," said Cheryl Currid, who monitors the on-line services market for Currid & Company.

"It doesn't surprise me to see the masses discover the benefits of on-line services. I just wonder why it took them so long."

After the announcement of further services specifically aimed at the UK market, the PA News wire is now available providing, up-to-the-minute news in several categories including general, financial, sports and parliamentary, law and royal reports.

At election time PA On-line will include a special category for results of local and national contests.

Clive Marshall, sales director of PA News added: "Every national newspaper and broadcaster uses the PA service of news and sports information. Now Compuserve users can access that service directly and read stories that broke just a few seconds ago."

The on-line service has also introduced the Video Game Publishers Forum and Video Games Forum. Through these new services, Compuserve members can see previews of new games for the CD32, talk strategy and receive hints, tips and shortcuts on their favourite games.

The Video Games Publishers Forum provides an opportunity to interact with publishers such as Accolade, Spectrum Holobyte, Konami and Data East.

Customer support representatives and game designers will be on-line to provide news, product announcements, game codes, screen samples, sound files and more.

The Video Games Forum is a special interest group of players using the CD32 and other consoles. Here, the players can discuss the merits of various hardware and exchange reviews, commentary and playing tips with their fellow enthusiasts.

"There's a lot of excitement in the gaming world about inter-console connectivity," said Compuserve product marketing associate Jim Pascua.

"By participating in our forums, players can get the latest news on this and other subjects, as well as make the most of the gaming technology they already have."

For further details, call Compuserve on 0800 289378.

CompuServe

Compuserve: Widening its horizons

Amiga user wins multimedia prize

A 17-year-old school pupil, Mark Holmes from Dundee, has won an Individual Award in a national competition organised by the NCET (National Council for Eductaional Technology) for his Amiga-based animation work. Holme's submission consisted of a hand-drawn animated title sequence, introducing the subject of surrealism.

The work was produced on a 1200 with the aid of Deluxe Paint 4. Holmes added: "Buying an Amiga is a good choice. It's an excellent tool within the price range of a novice or amateur."

The reward for his artistic efforts is a Philips CD-i that will be given to the Kirton High School where he studies.



Individual award: Winning Amiga-based entry in national competition

Protext improvements

To celebrate Arnor's 10th birthday, the company is releasing Protext 6.5, an upgraded version of their successful word processing package. The highlights include a graphical print preview, improved spelling checker, Auto-Correct spelling and an automatic expansion of abbreviations among others.

The price of the Protext 6.5 has been reduced by over 50% to £99 and owners of the previous versions, can upgrade at a reduced rate. Contact Arnor on 0733 68909 for more information.

Purchasing promise

Indi Direct Mail has launched a purchasing scheme to entice consumers and existing users into the Amiga market. Indi says that any customer who buys any product with a value of £100 or more can use it for six months and then pay the price without any interest charges.

"The only criteria for this amazing scheme is that our customer fills in a credit application form, selects a payment period and passes our normal credit checks." Commented the mail order company.

Indi Direct Mail can be contacted on 0543 419999.

Premier prices

Premier Vision has announced the arrival of the Premier Nevada and Premier Nevada Plus Broadcast Systems. The former gives full non-linear digital audio eight-track recording with broadcast quality video for £5,999 and features a 1.5Gb hard disk and 6Mb of RAM.

The Nevada Plus has the addition of Lightwave 3, the award winning Bars and Pipes Pro 2.5B, Multiframe and Art Department Professional. The package retails at £6,999 and includes one day of training.

Finally, Premier Vision has announced a reduction in price for the Sunrize AD516 non-linear hard disk audio recording board from £1299 to £999.

The AD516 board provides automated cross fading, instant on-screen editing and full drag and crop cue list manipulation.

For further details, contact Andy Bishop or Andy Gould on 071-721 7050.

Blittersoft developments

Blittersoft is now shipping the new Picasso Video Encoder, PABLO, with all cabling supplied, as well as a full version of the MainActor animation software. The package is retailing at £149.95.

Also available is the Ariadne, a fast ethernet Zorro II board that offers two additional parallel ports. Costing £249.95, the system is compatible with SANA II and comes supplied with the Commodore licensed ENVOY software.

Two upgrade kits are available for owners of the Amiga who wish to upgrade to the official Commodore 3.1 ROM. For the A500/1500 and 2000, users can expect to pay £84.95 and for the A3000/4000 kit, £94.95.

For further details, call Paul Lesurf at Blittersoft on 0908 220196.

Networking for your CD



Weird Science is releasing a networking system that enables users to connect either a CD32 or CDTV to another Amiga. By setting up a Sernet link between the CD32 and an Amiga, or a Parnet link between a CDTV and another Amiga, the CD-ROM is configured to provide a Workbench environment allowing the transfer of data from it to a master machine.

Also included is a set of software to start the user off – PD Photo CD, the latest batch of Fred Fish and Amos PD disks, 74 utility disks, over 500 images in 256 colours and more.

The introductory price is £29.99 for both the Network CD and CD32 cable combined. The Parnet cable for CDTV owners costs £9.99. For further details, contact David Law on 0533 340682.

NEW

ZAPPO AMIGA 1200 CD ROM DRIVE

After months of conjecture the product that Amiga owners have demanded is here. The Zappo Smart Drive simply slots into the Amiga 1200 PCMCIA slot and launches Amiga owners into the exciting world of CD
* Double Speed, Multi Session CD ROM * Photo CD Compatible * Plays CD + G music CDs and Graphics CD's * Mix CD and Amiga Audio Output * Plays CD32 Software * 12 Months Warranty

FREE ZAPPO T - SHIRT

£195.99

"The level of software compatibility that has been achieved is very impressive....Whatever your CD - ROM needs, the Zappo Drive can handle it." **Amiga Format**



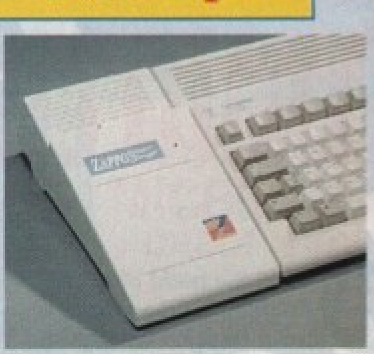
JUST ARRIVED THE SUPERFAST

ZAPPO Smart Stor plus

Plugs into the PCMCIA Slot of the Amiga 600 &1200 the Smart Stor Plus has it's own 12V supply and is ready to go. Excellent build quality at an amazing price.

12 Months Warranty

130Mb	£249.99
170Mb	£274.99
250Mb	£294.99
340Mb	£344.99



NEW LOW PRICE IDE INTERNAL HARD DRIVES

Indi can now offer top quality 2.5" Internal Hard Drives for the Amiga 600 and 1200 at unbeatable prices. All drives come complete with cable and installation software.

80Mb 2.5" Internal HD's £169.99
120Mb 2.5" Internal HD's £214.99
170Mb 2.5" Internal HD's £249.99

YEAR END STOCK CLEARANCE

It is our Year End and our warehouse spring clean means unrepeatable bargains strictly whilst stocks last

MBX 1200z Memory Expansion Boards

	Quantity	Price
14mhz +14mhz FPU	2	£84.99
14mhz + 14mhz FPU+4mb	6	£149.99
20mhz + 20mhz FPU	15	£68.99
20mhz +20mhz FPU + 2mb	3	£129.99
25mhz _ 25mhz FPU	10	£89.99

M1230 Accelerator Boards

	Quantity	Price
40mhz	4	£139.99
50mhz +50mhz FPU	10	£299.99

Brilliance " Brilliant " Graphics Paint Package " In terms of design and sheer specifications Digital Creations really seem to have done everything right. Effectiveness..." 99%." I really can't fault the end results" - **CU Amiga Review**
INDI PRICE £99.99 ~~£149.99~~

Final Writer The most powerful word processor to grace the Amiga...90% - **CU Amiga**
INDI PRICE £99.99 ~~£129.99~~

Final Copy 2 "About as close to being a desktop publisher as a word processor dare go" - **CU Amiga INDI PRICE £62.99** ~~£99.99~~

Morph Plus
You've seen Michael Jackson's video, you've seen the television adverts using the latest techniques in morphing, now you can create the same results but at a fraction of the cost.
INDI PRICE £99.99

Art Department Professional V2.5
The ultimate in image processor. With ADPro you can read, write and convert between most common image file formats with unmatched flexibility. **INDI PRICE £119.99**

Real 3D V2
Is a fully featured 3D animation modeling and rendering program. **INDI PRICE £299.99**

Zappo External Floppy Drive



You've seen all the reviews on this popular and affordable second Amiga drive. "Compatible with all Amigas Quality 9 out of 10."Exceptional value for money. **Amiga Computing**

£48.99

AMIGA REPLACEMENT FLOPPY DRIVES

Amiga 500 / 500+ 600 and 1200

£34.99

ROMBO AUDIO VISUAL PRODUCTS

Megamix. Low cost, hi spec digital effects cartridge plugs into the printer port of the Amiga. Allows stereo sampling from almost any musical source. **INDI PRICE £26.99**

Take Two. Animation package is a must for computer artists and enthusiasts of all ages. As used in Rolf Harris Cartoon Club. **INDI PRICE £34.99**

Vidi Amiga 12. The ultimate low cost colour digitiser for the Amiga. "the best value full colour digitiser on the market".- Amiga Format.
INDI PRICE £69.99

Rombo Vidi Amiga 12 (RT)
Based on the best selling Vidi Amiga 12. This all new version offers real time colour capture from any video source. Full AGA chipset support as standard for all A1200/A4000.
INDI PRICE £129.99

Rombo Vidi Amiga 24 (RT) Plus FREE Power Supply
For the more serious user, this 24 - bit version will again capture from any video source with true photo realistic images! A staggering 16.8 million colours can be utilised with incredible results. Full AGA chipset support.
INDI PRICE £219.99

SPECIAL OFFER

OPAL VISION MAINBOARD

The Opal Vision mainboard includes Opal Paint, Opal Animate, Opal Presents and Opal Hotkey.

FREE Montage 24

THE BEST SELLIING "REAL TIME" PROFESSIONAL VIDEO TITLING SOFTWARE.

For a limited period from 10 April until 30 June we will be giving away a **FREE** copy of Montage 24 worth 300 U.S Dollars. Montage 24 features Real Time font scaling, embossing and shadowing, colour spreads and transparency effects with an effective resolution of 1 nanosecond. Its many image processing capabilities include translucency blending, image compositing and beveled boxes. Now you can enjoy the benefits of the ultimate in high quality 24 - bit titling for OpalVision and the Amiga.

Limited Offer **£349.99** includes FREE Montage 24

OPAL VISION VIDEO PROCESSOR



We have received confirmation that the OpalVision Video Processor with Roaster Chip and the Opalvision Video Suite samples will be with us within weeks and volume supply will arrive early summer.

Video Processor Module **£899.99**

Voucher Price **£659.99**

Video Suite **£899.99**

ALFASCAN - PLUS 256 GREYSCALE & ALFA COLOUR 256K COLOUR HAND SCANNER

This Superb A4 Amiga Scanner voted "Amiga Shopper Best Buy", arrives complete with Merge IT and Micrograph OCR Software. Merge IT allows the simple, quick merging of two on-screen images and Micrograph OCR turns your Amiga into an efficient text reading system.Amiga 500/500 plus /A600 /A1200 /A1500 /2000 /3000 /4000
* Minimum 1Mb memory * Minimum 2Mb memory & a Hard Disk to run OCR option.
* Kickstart, Workbench V1.2 or higher.

£129.99 Alpha Scan PlusWith OCR software

£329.99 Alpha Colour With OCR software

PACE MODEMS The No. 1 in Telecoms

The MICROLIN FX.
Everything you need in a Fax Modem.
* Simple to set up and use
* Universally compatible
* 100% accurate data and Image transmission

£169.99

The MICROLIN FX 32 PLUS
The high powered performer. * High Speed Group 3 14400 bps and 9600 bps fax facility transferring an A4 page in seconds. * V.42 / V.42bis error correction and data compression, a great money save when you have volumes of data to transmit.

£269.99

Complete with Gift-Ware Telecom Software suitable for all Amigas (Except A500)

A1200 Software

Ryder Cup Golf	~~£25.99~~	£15.99
Man. UTD Premier League Champions	~~£29.99~~	£19.99
Settlers	~~£34.99~~	£22.99
Simon the Sorcerer	~~£39.99~~	£22.99
Premier Manager	~~£25.99~~	£11.99
Cool Spot	~~£29.99~~	£19.99
Burning Rubber	~~£25.99~~	£11.99
Beneath The Steel Sky	~~£34.99~~	£24.99
Cannon Fodder	~~£29.99~~	£19.99

ADI Educational Software from £12.99

AMIGA 4000 / 030

The new Amiga 4000 / 030 feature a EC 68030 processor running at an incredible 25 MHz. The A4000 / 030 has a powerful 2 Mb of 32 - bit RAM expandible to 18 Mb using industry standard 32 bit Simms module. In line with the A4000/040 the A4000/030 features the AGA graphics chipset giving you a massive 16.8 million colours.

£929.99
New Low Price
170mb
2mb Chip Ram

BUY NOW PAY IN 6 MONTHS TIME TEL 0543 419 999 FAX 0543 418079

Evolution of an image

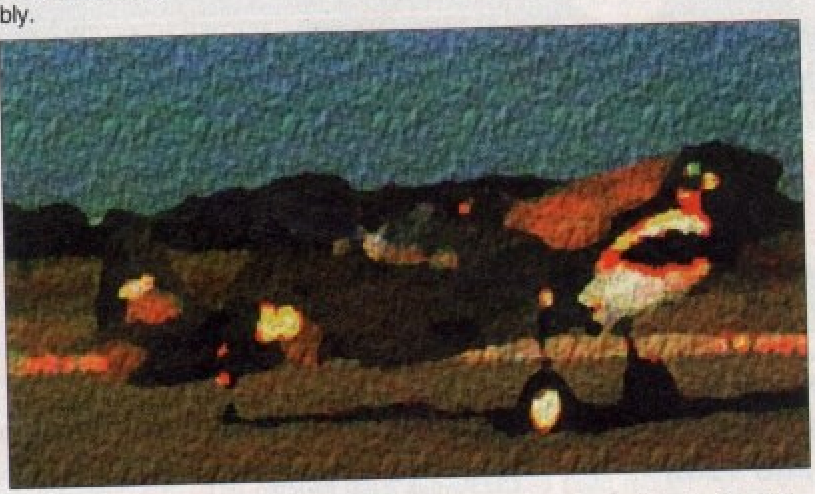


Denny Atkin explores the powerful potential of ImageFX

Hot on the heels of ASDG's major ADPro 2.5 upgrade is ImageFX 2.0 from the folks at Nova Design. Although the program doesn't look that different on the outside, the underlying engine has been souped up considerably.

It's like putting a 5.0 litre Mustang engine under the hood of an Escort – it doesn't really look different, but it's likely to leave competitors in the dust.

I've had the opportunity to play with a beta test version of the program and am quite impressed. Keep in mind that as this was written it was still over a month from release, some of these features might change, and other features could be added at the last minute.



ImageFX 2.0 supports texture effects that let you simulate images on textured paper or canvas. This P-40 fighter was originally a digitized photograph. ImageFX 2.0 was used to crop it, then the OilPaint filter was applied and a paper texture added to the resulting image.

Memory permitting, you can now work with multiple image buffers. Thanks to ImageFX's virtual memory support, you should find it easy to work with multiple 24-bit images simultaneously.

Both common and esoteric graphics formats are now part of ImageFX's repertoire, including PICT (bitmap and vector!), PhotoCD, PIC, Sunraster, Silicon Graphics, X-windows, Wavefront, GL and DL animations, and even C64 Koala!

A Datatypes loader is also planned for AmigaDOS 3 users. Animators will be ecstatic to learn that ImageFX 2.0 will include an Mpeg digital video player, decoder, and encoder. (This is the format used by the CD32 FMV module.) Support is also planned for limited loading and saving of QuickTime animations.

The program's painting abilities have been greatly improved. Paper textures let you make it appear as if you're painting on canvas or a textured surface, similar to the effects available in Fractal Design Painter for the Macintosh.

This effect is heightened when using the new watercolour, crayon, chalk, and colour-mixer draw modes. The air brush is improved, with real-time response, increased size and the ability to control fading in and out. New gradient fills are also available, including brick tile, swirl, and wheel fills.

You can preview a number of effects, such as Convolve, Twirl, Rotate, and Apply Texture using the new thumbnail feature. Other effects, such as Relief Map and Transform, have been greatly improved, with better interfaces and more ARexx control.

New effects include Jiggle, Pebble, RampEdge, Lightning, Spherize, 3-D Rotate, and Straw.

CROPPING

Selecting portions of an image is now easier thanks to the addition of moving, "crawling-ant" outlines. There's a fantastic new autocrop feature – just select the edge colour and the program will crop the edges of the image until no more of that colour remains.

Colour correction between NTSC and PAL systems is now provided, which will come in handy if you're creating professional output to be sent over seas.

Text capabilities are greatly improved. First and foremost, you can actually enter multiple lines of text instead of having to create text a line at a time. You can justify text, and anti-aliasing will eliminate jaggy pixel edges around fonts.

The update should be available about the time you are reading this. Pricing wasn't available as this went to press, but if you're currently an ImageFX user you'll find this update worth whatever price Nova Design asks.

You may remember that ImageFX 1.0 and 1.5 were released by GVP. When the contract came up for renewal, Nova Design, who created ImageFX, and GVP agreed to let the rights to the program revert back to Nova.

Nova will still support GVP buyers and offer upgrades to those users. In fact, Nova's Kermit Woodall promised that the company will endeavor to offer better technical support for ImageFX, and that they have some hot plans for the program's future despite Commodore's current situation.

IFX 2.0 should be available soon after you read this. Nova hadn't firmed up UK distribution at press-time, so check with your local dealer, or contact Nova via e-mail at kermit@cup.portal.com via Internet.

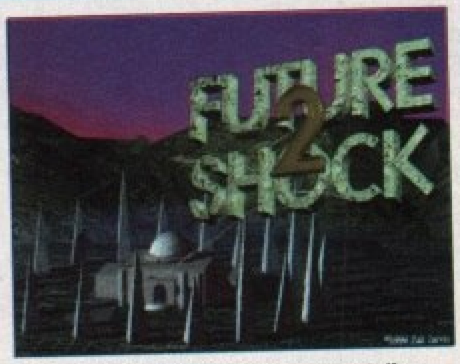
Sidewinders in Texas

One of the best ways to show off your Amiga to your non-computer friends is to play some MOD music files for them. But sometimes it's hard to get them to even come over to the computer to listen.

Thanks to one of America's premier Amiga MOD maniacs, you can now clandestinely impress them by popping some Amiga music into your CD player. Let them dance to a few tunes, then tell them they were created on your favorite computer. _Future Shock 2_ is the first CD from San Antonio, Texas-based Eric Gieseke. The 25-year-old musican is better know to Amigans who've heard his MOD music files as Sidewinder.

All of the tunes on the compact disc (which is purely an audio CD – no computer, CDTV, or CD32 required) were created on an Amiga 2000 with 3MB of RAM and a Perfect Sound sound sampler.

You'd never know it listening to the songs, though. The fast-paced, crisp, digitally-mastered music sounds as good or better than many of the techno or rave titles you'd pick up at the local Virgin or HMV shop. Most of the songs, such as After Shock and Reflects, are eminently danceable, while a few, such as the atmospheric Rainy December, slide you more into the smooth intricacies of his composition than into the beat. (Sidewinder calls his music style "techno+rave+tribal+synth +jazz..")



Sidewinder's Future Shock compact disc features this Amiga-generated cover by Zak Jarvis.

At $12.95 + $5 airmail shipping and handling, _Future Shock 2_ is a heck of a deal. How many Amiga-related products can be used to show off your computer's capabilities, provide wonderful background atmosphere for your computing, and can be danced to as well?

To order, send a money order to Sidewinder Productions, 8611 Cape Valley, San Antonio, Texas 78227 USA. If you have questions, you can e-mail Sidewinder at c.gieseke@genie.geis.com or call him at (210) 675-7592.

Back to basics

As Commodore languish in liquidation Paul Austin asks why are the people who made the Amiga being treated so poorly



Over the years *Amiga Computing* has always tried to keep Commodore at arm's length as far as editorial content is concerned – unlike some of the opposition.

Admittedly, during the first 18 months of my involvement with the magazine this wasn't particularly difficult, thanks to Commodore's total ineptitude in the PR department.

During this period we received a tiny handful of press releases, no product pictures or transparencies, and certainly no machines or official Commodore add-ons.

It's true that with the arrival of Kelly Sumner and the ubiquitous Mr Pleasance, the tide did appear to be turning. However since the big bang, Commodore seem happy to sit back as both users and third-party developers head for a watery grave.

As I write this particular piece Commodore have already been officially out of business for eight weeks. As you're probably well aware, during this period the rumours have been flying with Phillips, Samsung and Hewlett Packard all in the frame for a take-over.

However not a single word from Commodore. Obviously negotiations can be tricky, so it's not totally surprising the big C are keeping their cards close to their corporate chests.

But even so, what about the people who made the machine a success in the first place? Surely a bigger effort could be made to reassure the users and third-party developers who've carried the Amiga over the years.

After all, who manufactures the machine isn't really the issue, it's the uncertainty that's destroying confidence. Since Commodore's demise we've received just one faxed press release – and I can only assume the same is true for other magazines.

Obviously, for those sitting in the comfy chairs at Commodore's head office this probably isn't of any great concern – especially as Mr Pleasance has stated that there won't be any redundancies.

Great news for the old boy network, but what about the people at the sharp end, such as developers and retailers who quite rightly are terrified at the prospect of continuing Amiga development or investing in new stock.

Once these sort of people start to lose faith in a machine we're all in real trouble. Any machine is only as good as the people who support it, and if confidence goes, the machine goes with it – the ST being a prime example.

The really infuriating point is that the machine itself wasn't even developed by Commodore. In truth, the basic technology was bought and subsequently marketed under the Commodore name.

In reality it is fair to say the Amiga made Commodore and not the other way around. As a result, I think it's high time that the company who've made millions with the Amiga return some of the customer loyalty which has paid for so many company cars and executive lunches.

Strange as it may seem I'm still optimistic about the future, and with an injection of cash and a fresh management approach I'm sure the future for the machine will be secure.

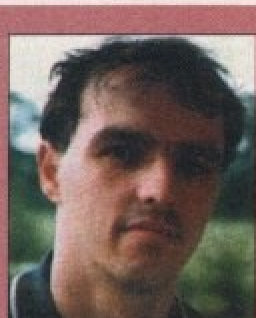
The basic technology is still way ahead of the opposition and according to Mr Pleasance, prior to big bang the AAA chipset was already on test.

Combine the existing technology with the most enthusiastic user base on any platform and you have all the main ingredients for continued success.

In fact, it's a testament to Commodore's incompetence that they actually managed to go under. In the end I'm sure that the recent turmoil will be seen as a blessing.

After all, if Commodore can take on the machine and make millions, the potential for someone like Hewlett Packard or Samsung would appear almost unlimited

Fond farewell



Before reading too far into this particular box take a quick glance at the bottom of the page. If you've never really taken much interest in what's affectionately known as "the flannel panel" it's unlikely you'll notice anything.

However there's one all important name missing among the motley crew that make up the *Amiga Computing* editorial team. Alas, after two years of inspired leadership, Stevie Kennedy's name no longer gets a mention.

During a period spanning almost four years, Stevie has been the key player in the development and subsequent success of the magazine, transforming what was a struggling publication into the one by which all others are judged.

Unfortunately for us his talents haven't gone unnoticed, and as a result he's been abducted and will now be editing one of our key PC titles. Obviously, it's always difficult to lose such an important member of any team, but with a little luck we hope to maintain the tradition of quality that's been the trademark of the "wee man" himself.

On behalf of myself and the rest of the team all that remains is to say bon voyage to a great editor, an inspired journalist and a true friend. All the best mate, and good luck – not that you'll need any...

Paul Austin
Editor

The AC team

EDITOR Paul Austin
TECHNICAL EDITOR Steve White
ART EDITORS Tym Lecky, Terry Thiele
NEWS EDITOR Adam Phillips
PRODUCTION EDITOR Judith Chapman
STAFF WRITERS Jonathan Maddock, Simon Clays, Adam Phillips, Tina Hackett
ADVERTISING MANAGER Simon Lees
AD SALES Jane Normington
AD SALES Sue Horsefield
AD PRODUCTION Barbara Newall
MARKETING MANAGER Lucy Oliver
PRODUCTION MANAGER Sandra Childs
SYSTEMS MANAGER David Stewart

CIRCULATION DIRECTOR David Wren
DISTRIBUTION COMAG (0895) 444055
SUBSCRIPTION 051-357 2961

Member of the Audit Bureau of Circulations
ABC 54,305
July-Dec 1993

Published by Europress Publications Ltd.
Europa House, Adlington Park,
Macclesfield SK10 4NP
Tel: 0625 878888
Fax: 0625 850652

CHAIRMAN Derek Meakin
MANAGING DIRECTOR Ian Bloomfield

We regret *Amiga Computing* cannot offer technical help on a personal basis either by telephone or in writing. All reader enquiries should be submitted to the address in this panel for possible publication.

Amiga Computing is an independent publication and Commodore Business Machines Ltd are not responsible for any of the articles in this issue of for any of the opinions expressed.

europress PUBLICATIONS

For six years *Amiga Computing* has been the leading magazine for Amiga enthusiasts. As a key member of the Europress magazine group, *Amiga Computing* promises to inform, educate and entertain its readers each month with the most dedicated coverage of the Amiga available.

12 issue subscription £39.95 9UK0, £54.95 (EEC) £74.95 (World)
Ongoing quarterly direct debit: £8.49 (UK only)

Printed and bound by BPC magazines (Carlisle) Ltd
A member of the British Printing Company Ltd

Harwoods have been established since 1955 providing Computer Systems since 1982. We always emphasise our quality of service which includes facilities that you may be charged for elsewhere...

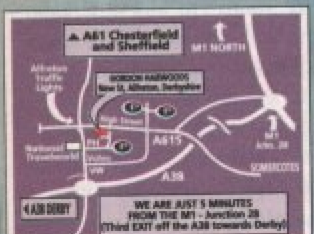
the harwood Directory

In Derbyshire, Nottinghamshire and by Mail Order... NATIONWIDE! Always with speedy delivery!

WHY BUY FROM HARWOODS?

- FREE DIRECT DELIVERY SERVICE
- FREE WARRANTY COLLECTION (see page 1 for full details)
- FREE HELPLINE SUPPORT
- CREDIT & CHARGECARD FACILITIES
- FINANCE FACILITIES AVAILABLE

WHY NOT TAKE A TRIP OUT TO VISIT US AND COME AND SEE OUR FULL ADVERTISED RANGE, AND MORE! EVERYTHING IS AVAILABLE AT THE SAME COMPETITIVE PRICES (Please see opening times). THERE'S PLENTY OF FREE PARKING CLOSE BY:



How to order...

BY PHONE: Phone our Order Hotline with your Access, Visa, Mastercard, Connect, Delta, Switch or Lombard Creditcharge Card quoting card number & expiry date (most Dixons, Currys, and other 'store' cards are Lombard Creditcharge and are happily accepted by us) & issue number where necessary (eg. Switch etc)

BY POST: Make cheques, bankers/building society drafts or postal orders payable to GORDON HARWOOD COMPUTERS. (Personal/business cheques take 7days to clear from day of receipt whereupon your order will be despatched). Please send Name, Address, and most importantly if possible, a Daytime Telephone Number along with your order requirements. Please check you are ordering from our latest advertisement before ordering (phone if you require confirmation).

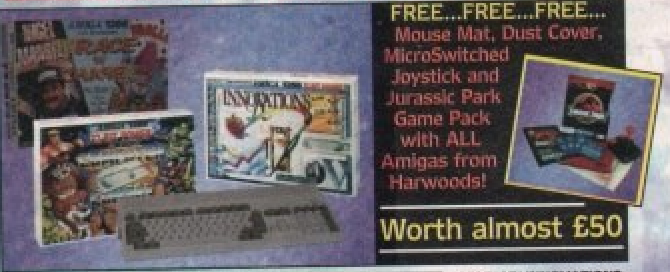
PRICES: Please remember that for example "September issue" magazines may be on sale during July, meaning that prices and offers advertised therein (which may appear up to date), could have been changed (we often have to provide artwork to magazines up to a month before the magazine is on sale). We therefore reserve the right to alter a specific item or pack price (either up or down) in the unlikely event of the cost price we pay changing. Please phone FIRST!

EXPORT: Most items are available at TAX FREE PRICES to non UK residents and service personnel. Please contact us for confirmation of export prices before ordering.

FREE DELIVERY: by Parcel Force (UK Mainland only) OR: SPEEDY NEXT WORKING DAY COURIER SERVICE. Add just £6.95 per major item for guaranteed delivery (or £10.00 for Saturday delivery), UK Mainland most regions. (Despatch normally on day of order or payment clearance). Overseas rates on request.

CHOOSE FROM OUR GREAT AMIGA A1200 COMPUTER PACKS!!!

That's right... you have a better choice of Amiga 1200 Packs - with optional Hard Drive configurations - at Harwood. And... you get the best prices around plus an EXCLUSIVE JURASSIC STARTER PACK FREE WITH EVERY AMIGA!!!



FREE...FREE...FREE... Mouse Mat, Dust Cover, MicroSwitched Joystick and Jurassic Park Game Pack with ALL Amigas from Harwoods!

Worth almost £50

A1200 H D OPTIONS	COMBAT/ INNOVATIONS	RACE 'N' CHASE
NONE	£349.95	£299.95
85Mb	£569.95	£519.95
130Mb	£584.95	£534.95
200Mb	£629.95	£579.95
250Mb	£689.95	£639.95

COMBAT/ INNOVATIONS PACK Contains... Total Carnage, Brian the Lion, Zool 2, Day by Day, Wordworth 2.0, Print Manager and Personal Paint V4

RACE 'N' CHASE PACK Contains... Dennis, Deluxe Paint IV, Oscar, Print Manager and Wordworth

Shown in the table above are just some of the Hard Drive Options available. Phone us for details of other sizes too.

AMIGA MONITORS...

PHILIPS

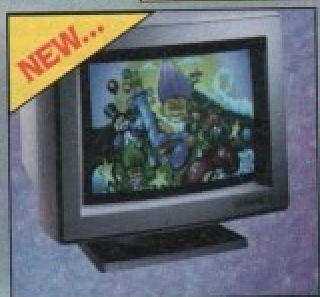
PHILIPS PRO 2000 15" COLOUR SUPER-RES MONITOR/TV

The best of both Worlds - A Quality Computer Display AND fully featured FST High Definition TV in one! Infra red, FastText Teletext, Loop Aerial, Headphone Socket complete with FREE leads to your Amiga!

a Brilliant Combination... Only...£229.95



NEW LOWER PRICE!



NEW...

MICROVITEC

AVAILABLE NOW WITH STEREO SPEAKERS!!!

MICROVITEC AUTOSCAN 1438 14"Colour Hi-Resolution MultiSync

.28 Dot Pitch Colour Hi-Resolution Monitor (requires separate speakers). This one is ideal for ALL Amigas, ST's, PC SVGA, Acorn etc., Conforms to the stringent Swedish MPR2 ClassB emission standards. A FANTASTIC 14" DISPLAY AT A FABULOUS PRICE...

Without Speakers...£299.99 With external stereo Speakers...£329.99

COMMODORE MONITORS IN SMALL QUANTITIES! PLEASE PHONE US FOR PRICING AND AVAILABILITY

AMIGA BOOKSHOP



NEW... Amiga Workbench 3 A-Z	£14.50
Amiga 1200 Insider Guide	£14.50
Amiga Assembler Insider Guide	£14.50
Mastering Amiga Assembler	£21.95
Mastering Amiga Dos V2 Vol.1	[illegible]
Mastering Amiga Dos V2 Vol.2	[illegible]
Mastering Amiga Dos V3	[illegible]
Mastering Amiga Dos V3 Tutorial	[illegible]
Mastering Amiga AMOS	[illegible]
Mastering Amiga AREXX	[illegible]
Amiga Disks and Drives	[illegible]
Mastering Amiga Printers	[illegible]
A1200 Next Steps	[illegible]
A1200 Beginners Pack. Including: 2 Starter Books, Video & Tutorial Disks	[illegible]

OTHER BOOKS AVAILABLE PLEASE PHONE US!!!

ASK ABOUT OUR WIDE RANGE OF BRUCE SMITH BOOKS

GREAT REASONS TO BUY FROM GORDON HARWOODS...

WHEN THERE ARE SO MANY DEALERS TO CHOOSE FROM WHY SHOULD YOUR CHOICE BE GORDON HARWOOD COMPUTERS? Well just a few GOOD reasons are listed here...

Harwood GOLD Service

FREE SERVICE POLICY...

- NEW Replacements for faulty goods (first 30 days)
- FREE UK Mainland collection of major hardware units requiring warranty service in the first year (unless on-site warranty is applicable)
- FREE rapid courier return of serviced products
- ACCESS to our ex-directory Customer Helpline

'LIFETIME' WARRANTY PLAN

You can choose to add an Extended Warranty to ANY hardware item from Harwoods - for less than you'd think! Take up to 5 years cover and at the end of that period extend again on an annual basis... Thus, a LIFETIME's PEACE OF MIND. What's more the warranty is fully transferable, enhancing resale values of your equipment! Even available on hardware you may have purchased elsewhere - Phone for details!

REST ASSURED

VALUE PACKED AMIGA PRINTERS

ALL our printers are supplied with cable, paper and labels FREE OF CHARGE! Dot Matrix models also come with a tailored dust cover FREE. Specific Amiga driver software is included with EVERY printer FREE!

CITIZEN COMPUTER PRINTERS

REMEMBER THAT ALL CITIZEN PRINTERS HAVE A TWO YEAR WARRANTY



CITIZEN PRINTER RANGE...

120D+ - 9Pin Mono	£129.95
Swift 90 - 9Pin Mono	£149.95
Swift 90 - 9Pin Colour	£164.95
Swift 200 - 24Pin Mono	£179.95
Swift 200 - 24Pin Colour	£189.95
Swift 240 - 24Pin Mono	£204.95
Swift 240 - 24Pin Colour	£229.95
NEW ABC 24 - 24Pin Mono	£139.95
NEW ABC 24 - 24Pin Colour	£164.95

RIBBONS...	MONO	COLOUR
120D	£3.95	NONE
90/C	£3.95	£15.95
24/200/240	£4.45	£15.45

ACCESSORIES...	
9/24Pin, 80Column	£37.95
Colour Kit (not 124)	£13.95
24Pin, 32K RAM Exp. (not 200/240)	£19.95
24Pin, 32K RAM Exp. for 200/240	£32.95
24Pin, 128K RAM Exp. (not 200/240)	

AUTO SHEET FEEDER, All 80 ColUMN Models (Please state type order) £84.95

Canon



CANON INKJET RANGE...

BJ10sx Mono - 360dpi (Ask for Black or Cream Casing)	£199.95
BJ200 Mono - 360dpi, 250cps with auto sheet feed	£249.95
BJ230 Mono - 360dpi, 248cps, A4/A3, ASF	£329.95
BJC600s Colour - 360dpi 240/170cps, 8 Fonts, 12 MTHS ON SITE MAINT. AVAILABLE	[illegible]

AUTO SHEET FEEDER BJ10sx in Black or White (state colour order) £84.95

PRICE CRASH! ALL CANON PRICES NOW EVEN LOWER!

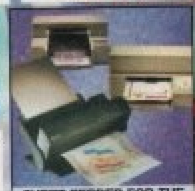
INKJET CARTRIDGES:	
BJ10ex/sx*	£15.95
BJ200/230§	£15.95
BJ600-Black	£6.95
BJ600-Cyan	£8.95
BJ600-Magenta	£8.95
BJ600-Yellow	£8.95
BJC600-CMYK Pack of Ink Cart.	£32.95
BJ800-Black#	£16.95
BJ800-Cyan#	£21.95
BJ800-Magenta#	£21.95
BJ800-Yellow#	£21.95

(Also for... *Apple StyleWriter I... # Apple Colour... § Apple StyleWriter II)

Hewlett Packard

310 DESKJET - Mono	£229.95
310 DESKJET - Colour	£264.95
NEW MODELS...	
520 DESKJET - Mono	£269.95
560 DESKJET - Colour	£519.95

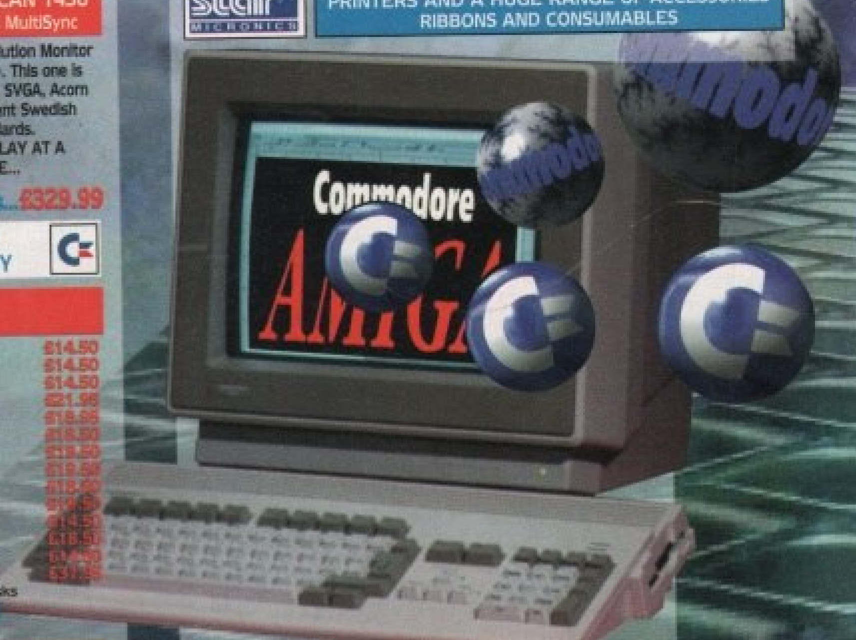
	MONO	COLOUR
INKJET CARTRIDGES:		
Deskjet/Deskwriter	£21.95 (DoubleLife)	£27.95
Paintjet	£26.95	£27.95
PAPER/TRANSPARENCY FILM:		
Single Sheet		£18.95
Z-Fold		£20.95
Transparency Film (50 Sheets)		£49.95



SHEET FEEDER FOR THE HEWLETT PACKARD HP 310 PRINTER £49.95

star MICRONICS

PHONE FOR FULL DETAILS OF STAR PRINTERS AND A HUGE RANGE OF ACCESSORIES RIBBONS AND CONSUMABLES



Ladbroke Computing

33 Ormskirk Rd, Preston, Lancs, PR1 2QP

Ladbroke Computing International are one of the longest established home computer dealers in the U.K. We have developed an extensive customer service policy which involves testing of all hardware prior to despatch to ensure that goods arrive in working order, offering free advice and support over the phone and keeping customers informed. Although our prices are not always the cheapest we do endeavour to offer consistently good service and backup.

All prices/specifications are correct at copy date 8/7/94 (while stocks last), and are subject to change without prior notice. All prices include VAT but exclude delivery.

How to Pay
You can order by mail Cheques/Postal Orders made payable to Ladbroke Computing. Or give your credit card details over the phone.

Delivery
Postal delivery is available on small items under £40 (Normally £3, phone for details). Add £7 for courier delivery. Next working day delivery on mainland UK subject to stock (£20 for Saturday delivery).

Open Mon-Sat 9.30am to 5.00pm.
Ladbroke Computing Ltd trading as Ladbroke Computing International.

Fax: (0772) 561071
Tel: 9am-5.30pm (5 Lines)
(0772) 203166

Printers



Star

Star LC100 Colour	£119.99
Star LC24/100 Mono	£169.00
Star LC24/30 Colour	£209.99

- Built in 55 sheet feeder
- 24 Pin Colour

Starjet SJ48 Bubblejet	£210.00
Star SJ144	£369.99

- Thermal max transfer colour printer
- 144 element head
- Glossy colour output
- 360 dpi resolution

Citizen

Citizen Swift 240 Colour	£250.00
Citizen ABC 24 pin Col.	£179.99

Hewlett Packard

HP Deskjet 520	£259.99
HP Deskjet 310	£239.99

Lasers

Ricoh LP1200	£599.00
Panasonic KX-P4400 Laser	£499.99
Seikosha OP104	£479.99

Add £3 for Centronics cable and £7 for next working day courier delivery.

GVP II Hard Drives



- Quantum SCSI Hard drive
- Ultra fast 11ms access
- Up to 8Mb RAM on board

SPECIAL OFFER

170MB NO RAM
£349

2Mb SIMM Upgrade	£54.99
4Mb SIMM Upgrade	£109.99

GVP 286 Emulator

- 16MHz 286 PC Emulator
- Norton rating 15
- Plugs into GVP II HD

GVP PC-286 Emulator	£89.00

Legend Trakball

Ergonomically designed Trak Ball. 320Dpi resolution, 2 microswitched buttons. The Legend Trak Ball is very easy to use. Unlike normal Trak Balls the LEGEND is operated with the thumb freeing the fingers to click buttons.

ONLY £29.99

GVP Genlock

- Video processor provides real time software control of brightness, contrast, saturation, hue, sharpness, filtering, gain etc.
- Audio processor with two audio inputs, software switchable or mixable, with software control of Volume, Bass and Treble effects.

G-Lock Genlock	£284.00
Rendale 8802 Genlock	£149.99

A1200 Hard Drives

Plugs into PCMCIA slot
Fully external, doesn't affect warranty

250Mb Overdrive	£349.99

Phone for higher capacities.

Amiga Packs

Amiga 600 Summer Pack — **£184.99**

A1200 Race & Chase — **£279.99**
Includes A1200 with 2Mb RAM. Trolls and Nigel Mansell

A1200 Computer Combat Pack — **£329.99**
Includes A1200 with 2Mb RAM, Digita Wordworth, Digita Print Manager, Personal Paint 4, Total Carnage, Zool 2, Brian The Lion.

Amiga CD32 — **£279.99**
2Mb RAM. Dual Speed CD ROM. Multi session, plays music CD's, 256000 colours on screen, includes 2 games Oscar and Diggers.

Amiga 4000 030 — **£999.00**
Includes A4000, 030 processor, 2Mb Chip RAM, 80Mb Hard drive.



Amiga Mouse

- 200dpi resolution
- 2 Microswitched buttons
- Opto/Mechanical mechanism
- Switchable between Amiga/ST
- Direct Mouse Replacement

£11.99

Floppy Drives

- 880K formatted capacity
- Double sided, Double density
- Through port

Zydec Drive	£59.00
A500/600 Internal Drives	Phone

RAM Upgrades

A500 512K upgrade
£16.99

A500+ 1Mb upgrade
£24.99

A600 1Mb no clock
£34.99

Plugs straight into A600 trap door compatible with A600, A600HD

A1230 Accelerator

- 40MHz 68030 accelerator
- Makes your Amiga 1200 run over 7 times quicker.
- Allows up to 32Mb RAM
- Optional FPU

A1230/4Mb/No FPU	£429.00
A1230/4Mb/68882 FPU	£529.00

Monitors



Microvitec 1438 — **£289.99**
The Microvitec 1438 is a multisync monitor compatible with A500/A600/A1200/A4000.

.31 DP Colour SVGA — **£199.99**

Colour SVGA Monitor — **£229.99**
High quality Colour SVGA Monitor .28 dot pitch.

A1200 VGA adaptor	£9.99
Falcon VGA Adaptor	£9.99
Philips SCART to Amiga	£9.99
8833 MKII to Amiga	£9.99

Falcon 030

- 16MHz 32 bit 68030 Central Processor, 16MHz Blitter, 32MHz 56001 Digital Signal Processor
- 1.44Mb 3.5" Floppy, up to 14Mb RAM. Displays 65536 colours from 262144 palette
- 8 Channel, 16 bit, high quality Stereo sound sampling

FALCON 1Mb No HD	£499.00
FALCON 4Mb No HD	£699.00
FALCON 4Mb 64Mb HD	£799.00
FALCON 4Mb 127Mb HD	£899.00
FALCON 4Mb 209Mb HD	£999.00
Falcon Screen Blaster	£89.00

Repair Services

Our Service department can repair Amiga's in minimum time at competitive rates. We can arrange for courier pickup and return delivery of your machine to ensure it's safety. We even have a same day service which will ensure your machine is given priority and subject to fault, completed the same day. We offer a Quotation service for £15 for which we will examine your machine and report back with an exact price for repair. If you do not wish to go ahead with the repairs then just pay the £15. However if you do go ahead then the charge is included in the minimum charge. Please note: The minimum charge covers labour, parts are extra.

Quotation service	£15.00
Min repair charge	£35.25
Courier Pickup	£11.00
Courier Return	£7.00
Same day service	£15.00

De-archiving applications - Workbench 2.0 and above

Always boot from your CoverDisk when de-archiving applications. The installer programs can be located via the install icon with the appropriate name in the WB_2&3_Only drawer.

The de-archiving procedure has been much improved and now combines the power of the official Commodore installer program with that of Workbench 2.0 and 3.0.

The installer program is designed to be powerful yet simple for the beginner and features a user-friendly interface allowing you to de-archive programs with a minimum amount of fuss. The installer programs for Workbench 2 and 3 users can be located via the icons named:

```
Install[program name]
```

eg:

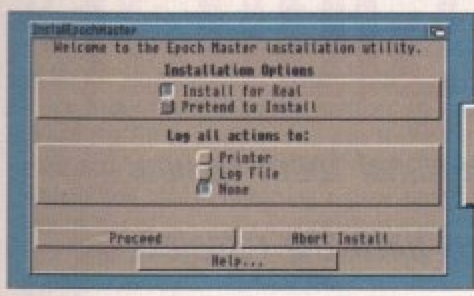
```
InstallPFM
```

To run, simply double click on the icon which will load up the installer program.

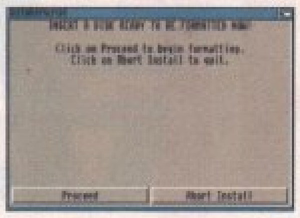
Using the installer

Ignore the buttons that appear when the installer program boots up and simply click on the Proceed button. The program will then copy the necessary files to RAM.

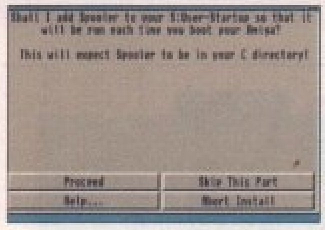
Once this has finished it will inform you that it is about to format a disk in DF0. Click



Don't worry about the installer options. Simply click on the Proceed button



Don't forget to insert a blank disk at the prompt and before pressing Proceed



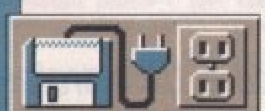
Any commands that need to be added to your User-Startup can be done with the press of a button

on Proceed, at which point you will be told to insert a blank disk ready for formatting.

Once you have clicked on Proceed, the installer will indicate that it is formatting the disk in DF0. When this has finished, click on Proceed again to start the de-archiving procedure. When the application has been de-archived you will be told where the de-archived files are. Click once again on Proceed to finish.

If at any time you are unsure as to whether you want to continue installing, you can click on the Abort Install button.

Occasionally, utilities may need to add instructions to your User-Startup file located in the S directory so that they will function correctly. If you want to add the instructions, click on Proceed when prompted.



The Workbench 2.0 and 3.0 installer icon

The Files drawer contains all the utilities set up so that you can use them from the CoverDisk. A Games drawer is also provided so that you can play these immediately. If you want to install the games make sure you copy all the necessary files across as listed in the CoverDisk pages.

getting started



The Amiga Computing CoverDisk is designed to be as simple to use as possible. Follow these instructions and you'll be up and running in no time!

We have now managed to fix the problem with AmigaDOS displaying a "disk is write protected" requester when a write-enabled disk is inserted. Just make sure you insert a blank disk when the installer programs tell you – and not before or after.

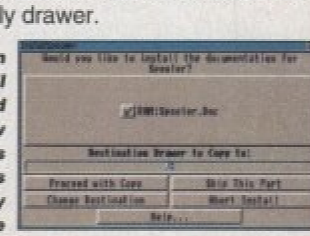
Installing utilities

The procedure for installing utilities is much the same as installing applications, except that you can boot from your hard drive or Workbench disk. As utilities don't need to be de-archived, you are asked to specify a directory on your hard drive or Workbench disk where you would like to install them.

If you don't want to install to the default directory you can change it by clicking on Change Destination. The Show Drives button will allow you to select a new device and directory. You can create a new drawer for your utility to go in by clicking on the Make New Drawer button and typing in the name.

You can also make a utilities disk by running the MakeUtilitiesDisk1.3 program located in the WB_1.3_only drawer and installing your utilities to here. At times you may be asked if you want to install a utility's documentation. A tick box indicates that the documentation is selected for inclusion, but you can click on the box to ignore it or simply click on the Skip This Part button.

The utility installer programs can be found in the appropriate program drawer in the WB_2&3_Only drawer.



You can easily install documents and create new drawer thanks to the installer's user-friendly interface

De-archiving applications - Workbench 1.3

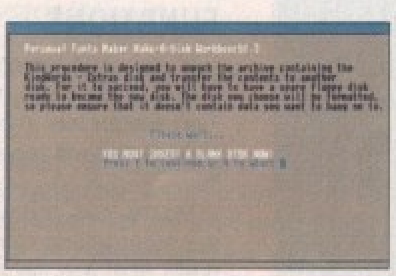
Always boot from your CoverDisk when de-archiving applications. The installer programs can be located via the install icon with the appropriate name in the WB_1.3_Only drawer.

```
Install[program name]_1.3
```

eg:

```
InstallPFM_1.3
```

When you load up the 1.3 installer the program will first prepare itself ready to de-archive the program to a blank disk(s). You will then be asked to insert a disk to be formatted into DF0 and either press y to continue or n to abort.



After inserting a blank disk press y to continue or "n" to abort

Provided you answer y, the disk you insert will be formatted and the application de-archived.

Installing utilities

You should first run the MakeUtilitiesDisk_1.3 to format a blank disk called ACUtilities which will be used to store any utilities you eventually install.

This disk can be used with future CoverDisk utilities until it becomes full. The MakeUtilitiesDisk1.3 program will be a permanent feature of the CoverDisk.

To install any utilities, boot your machine with your CoverDisk inserted in DF0. Utilities can be installed by clicking on their install icon found in the appropriate drawer in the WB_1.3_Only drawer. You cannot specify their destination and any additions to the Startup-Sequence must be done manually.

When installed the utilities are copied to a drawer called ACUtils on the ACUtilities disk.

Loading Scroller 2

You are not required to de-archive Scroller 2 because we have supplied it to you in its original form. To load Scroller 2 simply insert the disk into DF0 and then re-boot your Amiga.

The Scroller 2 disk is not an AmigaDOS therefore you will not be able to copy it or install it onto a hard drive.

The addition of Fast RAM will not make any difference to the program as Scroller 2 uses only Chip RAM. Obviously, the more Chip RAM you have the more fonts will be loaded when Scroller 2 loads.

You do not need to keep the Scroller 2 disk in DF0 at all times as the program is loaded into memory.

THE Cover





That professional feeling

Add a truly professional touch to your video productions with the complete Scroller 2 from The Soft Alternative

Welcome to Scroller 2 from The Soft Alternative. You now have the ability to create stunningly attractive text displays which you can genlock onto your favourite video, whether it be a wedding, birthday party or home movie (interesting).

Not only does Scroller 2 allow you to add text to videos but also to scroll it in all directions, as well as add a wide range of special effects for that professional touch.

The following tutorial will teach you how to use the interface, create a text display and scroll it.

Once Scroller 2 has loaded you will be presented with the main options window. It is from here that you create scrolling text displays which you can genlock onto your videos.

ABILITY

Every button also has a keyboard shortcut which is displayed on the button. If you would like to see what Scroller 2 is capable off press the F1 key and Scroller 2 will run through the demo script which is always in memory when the program is first loaded.

When you have finished watching the demo press the Esc key to get back to the main menu. If you press F2 you will see the Scroller 2 logo scroll on from the left and split into two sections. This is because the demo script is not designed for use with the horizontal scroll option.

In this first tutorial we will produce a set of credits for a video production and then save them onto a Scroller 2 data disk. You will need to have a blank disk handy.

To select any of the options in Scroller 2, press the function key that corresponds to it. For now we shall take the third option, F3 – Edit Text.

When starting a new title F3 is usually the first option you will use. If you haven't done so already, press the F3 key now and Scroller 2 will display its Edit Text screen.

This should be a black screen with 00% displayed in the top left corner, with a thin line beneath it and the Scroller 2 logo in the middle of the screen.

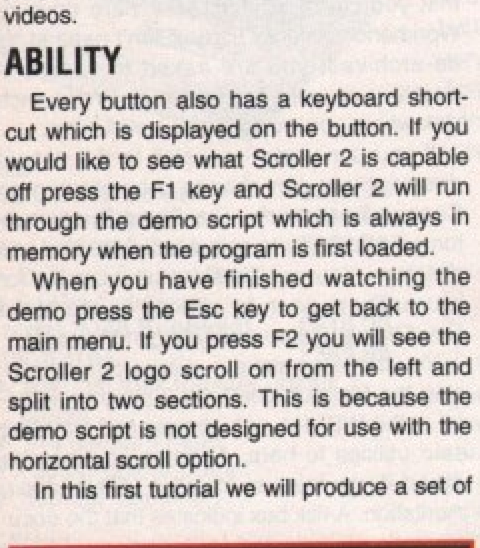
Press the left Alt key if there is no status bar visible. You should also see a flashing cursor indicating text input.

The Scroller 2 logo you can see is part of the demo script which is always loaded on start up. So, your first step whenever you begin a new project is to clear this script from memory.

FUNCTIONS

If you can't remember which key calls a particular function, remember that the Edit Text screen has in-built help available. The Help screen will appear if you press the Help key.

Do this now and you will see, amongst all the other information listed, that you must press Shift and Del together to clear all the text. However, before you can invoke the



Scroller 2 allows you to create smooth scrolling text displays which you can genlock onto videos

Arrow keys: move cursor 1 character.
Shift left & right: move cursor 1 word.
Shift up & down: move text 1 line.
Shift delete: clear all text.
Keypad: pgup, pgdn, home, end.
F1-F3: set colour of subsequent text.
F4: ascii selector. F5: shadow on
F6: shadow off. F7: Fill justify.
F8,F9,F10: left, centre, right justification.
L shift F1-F10: select font from bank A.
R shift F1-F10: select font from bank B.
': search for text. Shift ': repeat search for text.
/: search & replace. Shift /: repeat s & r.
Left alt: Hide cursor & status bar.
ESC to return to the editor.

When entering text you can call up the help page simply by pressing Help. This page will show you all key commands and their results

r Disks

clear command you must return to the Edit Text screen. So, as instructed at the bottom of the Help screen, press the Esc key.

Incidentally, the Esc key is always used to exit from the current level of the program to the previous one. If you pressed Esc again you would move back one more level from the Edit Text screen to the Main Menu.

Clear the demo script by holding down Shift and Del together. Scroller 2 will double check that you really meant to do this by asking Delete all text Y/N. In this case hit Y and you will be returned to an empty Edit Text screen ready to start receiving your text.

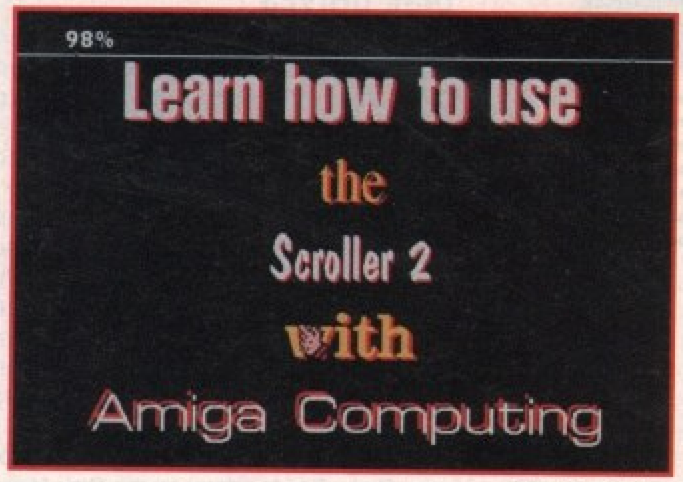
You will find that the Edit Text screen works similarly to a word processor – with a few added bells and whistles. Before we start to type in our titles we need to set up a couple of options.

JUSTIFY

For this project we would like our titles to be centred. Scroller 2's default is to make all the text left justified – meaning that each line of text starts flush with the left margin.

To make the text centre justified we must press the F9 key which you can find on the Help screen. Once you have pressed F9 you should see that the flashing cursor jumps to the centre of the screen, indicating the position where text will appear when we start typing.

We also want our text to have a drop shadow so that it will stand out from the background, so press the F5 key to turn the shadow on (Scroller 2's default is shadow off).



Entering text couldn't be simpler using Scroller 2, as it emulates all the functions of a professional word processor

Finally, select a big, bold font by holding down the left Shift key while pressing F10. There are 19 other fonts that you can select using the Shift and function keys. They come in a variety of sizes and styles and you can also load extra fonts from additional fonts disks. We can now enter text.

Type the word Camera and you will see it appear in the centre of the screen in large white text with a red drop shadow. If you make any mistakes you can delete them using the Backspace and Del keys in combination with the cursor keys which move the flashing cursor around the text.

To enter a new line press the Return key and the cursor will move onto the next line.

You are now ready to type a name, but first press the F2 key. Now type Joe Bloggs and you will see that it prints in yellow rather than white. By pressing F2 we instructed Scroller 2 to use Colour 2 (yellow) for subsequent text. Before we enter the next credit press Return twice to make some space beneath the first credit, and then F1 once to select Colour 1 (white). Now type in Sound to begin the next credit, followed by one press of the Return key. Next, press F2 to select colour 2 and type Dave Smith. Carry on in this fashion until you have a list that reads:

```
Camera
Joe Bloggs

Sound
Dave Smith

Lights
Sarah Jones

Producer
Nigel Green
```

(This four line space is intentional)

```
Director
Stella Adams
```

For reasons that will become clearer later on make sure that you have four blank lines before the Director's credit. You can tell how far through your text you are by looking at the percentage figure on the Status Bar in the top left corner of the screen. 00% means you are at the top, 50% in the middle and 100% at the bottom.

Now that we've entered our titles we can scroll them to see how they look. Press Esc to return to the Main Menu and then F4 to set the scroll parameters.

Scroller 2 has two scroll modes – Single and Continuous. When Scroller 2 scrolls in Single mode it stops and leaves a blank screen when your titles have finished.

In Continuous mode it will start again ➤

Midnight

Author: Imagine Software
Workbench 2 and above

Midnight is an excellent screen blanker program that allows you to choose from ten different blankers.

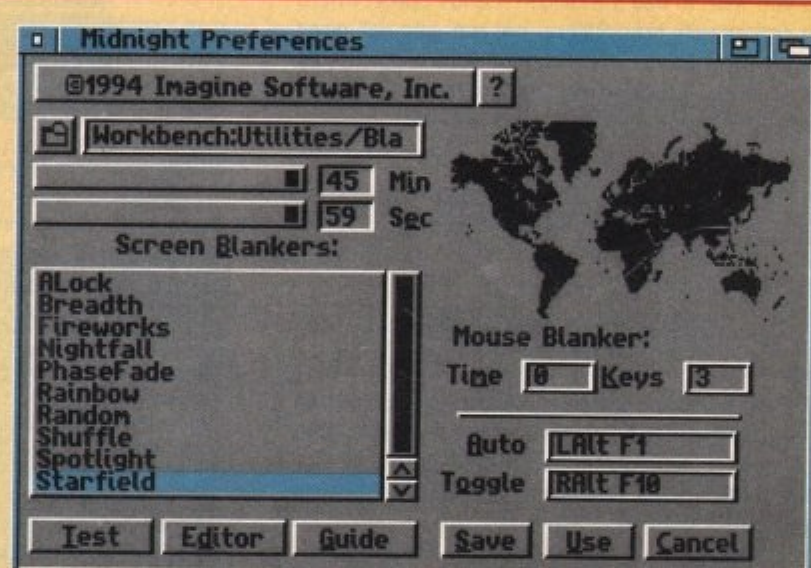
On loading the program you will be presented with the tasteful Midnight interface. Everything you will need to run the screen blankers is present on this interface.

In order to test each blanker, select one from the list gadget and then click on the Test button just underneath. You can also edit the way in which each blanker works by selecting one and then clicking on the Editor button. Each editor screen is particular to the selected blanker.

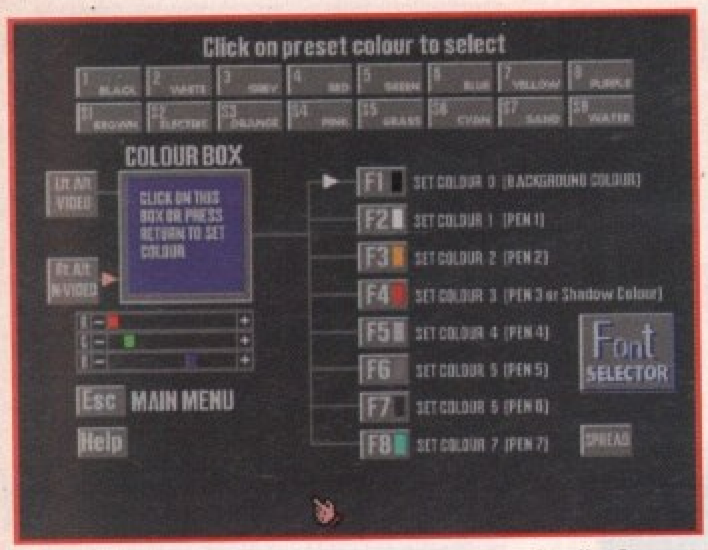
If you want to have Midnight run every time you boot your Amiga you will need to copy the BPrefs program into your WBStartup drawer, the Midnight program into your Prefs drawer and the Blankers and manuals anywhere you like.

Of course, the program will not be able to locate the blankers until you specify the path using the requester below the Imagine Software logo.

This is a demo version of Midnight but if you register to the full version you will be able to define your own blanker modules using the random option, as well as select others not included in this version. It's up to you.



Yes, I know I'm using MagicWB. Midnight is certainly the best collection of screen blankers available for the Amiga



Scroller 2 comes complete with pre-defined colours but you can edit them if you wish to create your own

➤ from the beginning as soon as it reaches the end, which is why this mode is frequently used for informational displays. Continuous mode is the default setting.

However, for this example we need to use Single mode, so press F1. You should see the arrow move from Continuous to Single. Leave the other options as they are and press Esc to return to the main menu.

At last, we're ready to scroll. Press F1 to select Vertical Scroll. The text you have just typed in should start scrolling very rapidly up the screen. To control the scrolling speed you can use the numeric keys or those on the numeric keypad. The higher numbers correspond to higher speeds, all the way down to zero which is stop.

Speed five gives a nice, smooth scroll at a medium speed so select it by pressing the number 5 key. If all the titles have already scrolled past, press Esc to return to the Main Menu and then F1 to start the vertical scrolling again. Try pressing 0 when the Director's credit is in the middle of the screen. Wait a few seconds and press 5 again. The Director's credit will pause in the middle of the screen for a moment and then continue on its way.

The extra space we put around the Director's credit allowed us to pause it in the middle of the screen on its own. Scroller 2's scrolling speed can be controlled interactively like this with great ease.

We can now save this tutorial to disk by returning to the Main Menu and pressing F8 to select the Disk Menu.

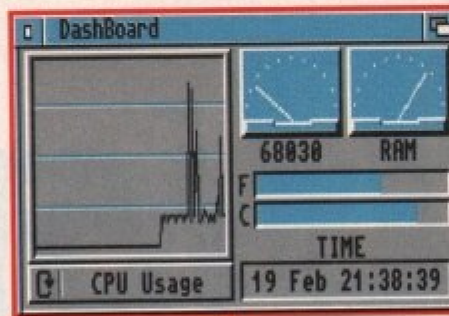
DISK DRIVES

Across the top of the Disk Menu you will see images of four disk drives labelled DF0, DF1, DF2 and DF3. The picture of drive DF0 has a disk in it and its light is on, indicating it is the currently selected drive.

We want to save our titles but first we must format a Data Disk to prepare it for use with Scroller 2. Press F4, at which point Scroller 2 will ask you to insert the disk to be formatted into drive DF0. Take the program disk out, insert your blank disk and then press F1, at which point Scroller will start to format the disk.

Your Scroller 2 Data Disk is now ready for use. Press Esc to return to the Disk Menu and then select F2 to save your text. Scroller 2's file requester will appear, allowing you to select the name of the file you want to save.

Seeing as we have only just formatted our data disk it currently has no files on it. Type in Tutorial1 which will appear in the box labelled Filename. Press Return and the text will be saved to the disk. This concludes our first tutorial with the Scroller 2.



Find out what your Amiga is up to at all times with this excellent monitor program

Dashboard

Author: Marat Fayzullin
Workbench 2 and above

DashBoard is an excellent little program that displays essential system information about your Amiga.

When run it will display the current time (if you have a clock), the amount of Chip, Fast and total memory and CPU activity. All of these are displayed using highly informative graphs and speedometers.

Also supplied is Dashboard Jr which is a cut-down version of the full program. Jr displays just the amount of Chip, Fast and total memory.

For a more detailed description of the display check out the annotated diagram.

SMenu (Silicon Menus)

Author: Greg Cunningham
Workbench 2 and above

SMenu is an excellent utility that will allow you access to the Workbench windows simply by pressing the right mouse button anywhere on the Workbench screen.

If you wish to use the Silicon menus option where you can specify how SMenu will run, you will need to alter the SMenu icon's default tool. You can do this by simply clicking on the icon once and then selecting Information from the Icons menu.

Change the line:

```
WINDOW=OFF
```

to:

```
WNDOW=ON
```

Save the changes and when you next click on the icon you will see the ButtonFly menu where you can toggle certain attributes about SMenu.

What follows is a brief explanation of each button, starting from left to right, top to bottom.

Iris Menus – the menus appear on screen until you press the right mouse button a second time

The menus will totally change the way you navigate around your Workbench



Centred – centres menus vertically

Sub arrows – arrows indicate sub-menus

Qualifier – pops the menus up only when the qualifier has been pressed

Kill pgm – exit Silicon Menus

Use opts – run Silicon Menus with the selected options

If you aren't too keen on running the Button Fly every time you can set the options in the Tool Types. Here are descriptions of the Tool Type commands:

```
IRISMENUS=ON/OFF
```

Enable or disable Iris mode

```
SUBARROW=ON/OFF
```

Enable or disable sub-item arrows

```
CENTER=ON/OFF
```

Display menus vertically centered

```
QUAL=ON/OFF
```

Standard menus if ALT, SHIFT, AMIGA or CTRL are not pressed

```
WINDOW=ON/OFF
```

See above

```
HOTKEY=A-Z
```

Set the hot-key. Only A to Z is permitted

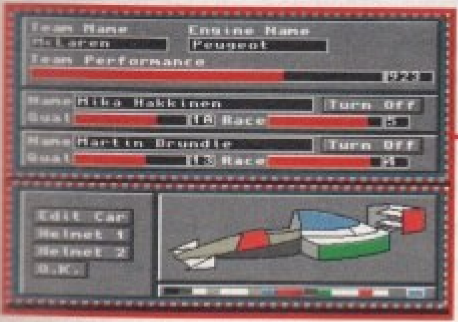
```
DOUBLEBORDER=ON/OFF
```

Enable or disable doubled menu borders



At last, all you rookie experts can keep with the automatic gears but race against far superior opponents than the defaults

F1 Grand Prix Editor



Not only can you set the skill level of the other drivers but also edit their car and helmet colours

Author: Steve Smith

If anyone had to nominate the best computer game on the Amiga there is no doubt that F1 Grand Prix from Geoff Crammond would receive serious consideration.

However, most players have shyed away from the higher performance levels of F1GP due to the fact that it's damn hard driving with gears. Most are content to race on the rookie levels with maybe the destructable function switched off.

The only drawback of racing on rookie level is that you eventually improve so much that F1GP fails to be a challenge anymore.

This is where the F1 Grand Prix Editor steps in. Mimicking the look of the game, F1GP-Ed allows you to alter all the attributes associated with the game and save them as either a seperate file or into the actual F1GP program. Everytime you load the game the defaults will be the same as you created in the editor.

You can improve the skill of opponent teams and drivers, turn players on or off, change helmet designs and best of all edit the colours of the cars using a simple but effective colour picker.

Using the F1GP-Editor is very simple – most of the buttons and windows are self-explanatory. Steve Smith has kindly included three example files which you can load into the editor and save to the F1GP executable.





ZXSpectrum

Author: Peter McGavin

The Amiga is a very powerful machine, so powerful in fact that it can quite easily emulate other computers, including the ZX Spectrum – that classic 8-bit computer that really set the computer industry moving.

There are two versions of ZXSpectrum on the CoverDisk – a 68000 version for the A500, A500+ and A600 and a 68020 version for A1200s and above.

The good news is that if you own an accelerator ZXSpectrum will still function, taking advantage of any additional hardware.

As it stands, the 68000 version will be very slow unless you own an accelerator. Even the 020 version can't quite emulate the Spectrum speed, but with an 030 you'll be looking for the rubber keyboard and reminiscing about the good old days.

So that you can step back into those funky 8-bit days we have also supplied you with a Spectrum game called Batman – an isometric 3D game in which Batman must collect parts of the Batmobile in order to save Robin.

When you first load ZXSpectrum you will be greeted with the familiar reset screen. By pressing down the right mouse button you can select a variety of options from the main menus.

Select Load and you will be able to load in the Batman snapshot file. You can even save any programs you have written with the Save snapshot facility.

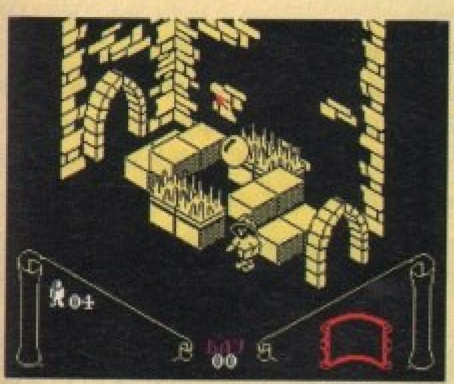
There is a file missing from the ZXSpectrum pack and this is the help page. Unfortunately, there was just not enough room to get this on the disk.

When you press the Help key a picture is displayed showing the Spectrum keyboard. If you want this file write in and tell us and it will be included on a later CoverDisk.

A standard Amiga joystick can be used by plugging one into port 2 and selecting Kempston as the control method in any games you play.

The Settings menu allows you to load any Spectrum game through a sampler and store it as a snapshot file. You can load in games by connecting your data recorder to a sampler and playing the data through it and into the program.

ProSound and Rombo samplers are directly supported but almost all samplers that are capable of a least 20kHz and plug into the parallel port will work.



There are plenty of other games available for the Spectrum emulator. If you want to see more write in and tell us



This is the best Spectrum emulator you're likely to find. Just look at those glorious colours

Faulty CoverDisk

If you subscribe to Amiga Computing and your disk does not work, please return it to:

Amiga CoverDisk, Europress Direct, FREEPOST, Ellesmere Port L65 3ED

If you bought your copy from a newsgent and find that your CoverDisk is faulty, please return it to:

PC Wise, Dowlais Top Business Park, Dowlais, Merthyr CF48 2YY

MTV

Author: Adam Dawes

This is a intended to be a fun program which, when executed, displays the familiar MTV logo in the top-left corner of your Workbench. Over time the logo spins, flips and rotates, just like the real thing.

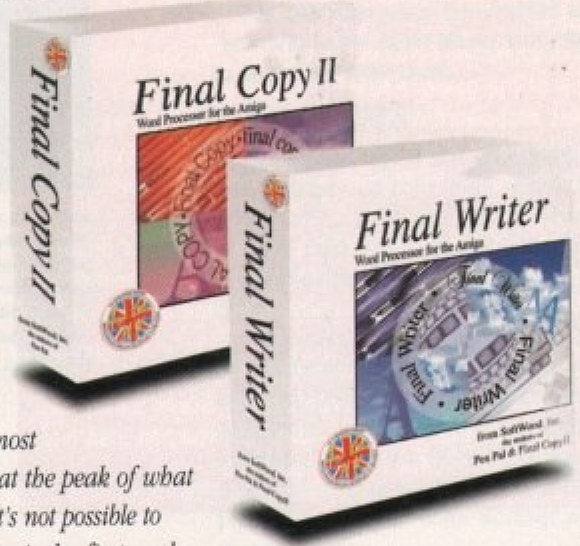
The MTV program does not have an icon so you will need to run it from the CLI or Shell. Use the CD command to change directory to the MTV drawer and then enter MTV.

The program does not interfere with other programs and can easily be switched off by holding down both mouse buttons for a few seconds.

At SoftWood we have o

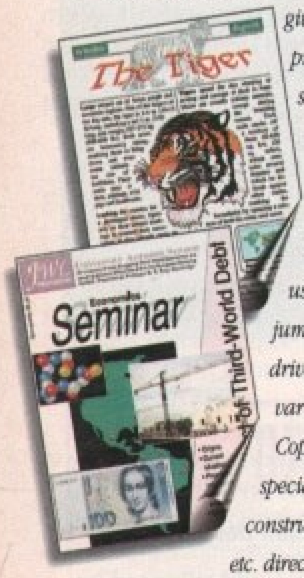
...we don't just rest on them!

When your software repeatedly wins the highest accolades in reviews worldwide, what do you do? Work even harder to stay ahead of course! New Final Writer Release 2 is the latest result of our intensive development - it's even easier to use, and even more powerful. It's the best there is, and it's designed for those who expect the most from their Amigas. But, if you don't have a hard drive system, don't despair, we can still help. At SoftWood we offer you a choice of two Word Processor/Page Publishing packages.
But why TWO?
Well, this means that whatever specification Amiga you have, SoftWood have the perfect solution for your requirements - and always the most powerful possible for your system. Final Copy II is at the peak of what can be achieved when running with twin floppies, it's not possible to offer more without losing performance. Final Writer is the first and only hard drive compulsory Amiga word processor; the only package that doesn't make compromises to be floppy compatible!



The SoftWood Advantage...

Final Copy II (upgradable to Final Writer as your needs grow) and Final Writer are the only word processors that give you ***PerfectPrint™*** *- a unique printing advantage giving silky smooth Industry Standard Adobe™ Type 1 or Nimbus Q scalable outline fonts direct to* ***any*** *printer (even dot matrix and ink jet), in both landscape and portrait. Others use a restrictive and unnecessary jumble of different fonts with complex driver programs for outputting to various printers. The launch of Final Copy II introduced* ***FastDraw™*** *- a special set of structured drawing tools for constructing lines, borders, arrows, circles etc. directly on the page.*



Final Writer, extending innovation...

Now, as others are just starting to add similar features, saying they're 'revolutionary', Final Writer extends the innovation further with ***FastDraw Plus™*** *- adding even faster and more functional options, including a new rotate command. Final Writer Release 2 is again leading the way with the introduction of* ***TouchTools™*** *and* ***PowerUser Bar™*** *technologies. These features give the user a definable area at the top of each document window where up to eight "one-touch" button strips can be configured. Each strip contains easily customisable sets of functions giving instant access to all the major commands/features - with a simple click of the mouse! There is even a set of buttons allowing "one-touch" selections of font style and size plus variations including Plain,* ***B****old, Italic and Underline!*
It's no wonder we've received top reviews, ratings and awards from all the leading magazines...

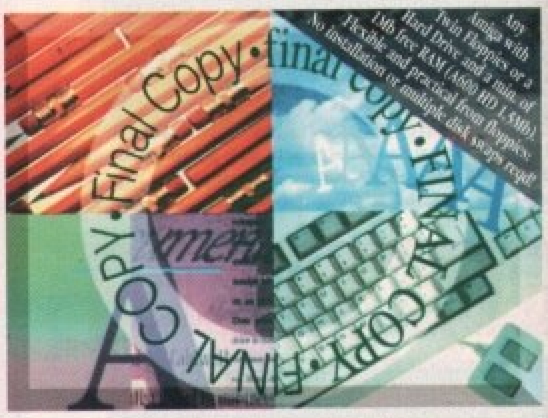
"What the Papers Say..."

Amiga Shopper... *"Final Writer is the closest thing to Microsoft Word to appear on the Amiga"* **Amiga Computing...** *Final Copy II voted "Best DTP Package"* **Amiga Shopper...** *"If ever there was a good reason to buy a hard drive for your Amiga, Final Writer* **is** *that reason - Amiga Word Processing has come of age with Final Writer"* **Amiga Format...** *Final Copy II is "The Best Word Publisher"* **Amiga Pro...** *"In comparison (to Wordworth 3), Final Writer 2 is slick, solid and reliable and... is a damn site more usable"* **Amiga User International...** *Final Writer is "a powerful program that produces excellent results"* **Amiga Computing...** *Final Writer is "easily the most configurable Amiga WP ever"* **CU Amiga...** *Final Writer is the "most powerful WP ever to grace the Amiga"* **Amiga Format...** *"I'd go for Final Writer over Wordworth (3) - Final Writer is a joy to use"*

All trademarks are acknowledged

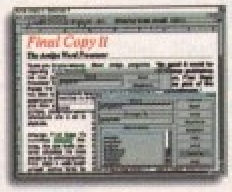
The Highest Accolades...





Final Copy II Release 2

Our word processors go beyond simply producing normal letters and documents, at which they naturally excel, and progress into a world where "how the whole document looks" is just as important as "what it says". Admittedly, this can be achieved with Desk Top Publishers - but they're not so easily used as word processors, especially when a good looking letter needs creating quickly - they're far too cumbersome. *Final Copy II* offers the perfect balance between the two requirements... Ease and speed of use, with total control over the perfect printed presentation.



Complete control over how documents look, now *you* have it at your finger tips on your Amiga! Features include:



FastDraw™ (on-screen drawing tools for use with the generation of borders, boxes and lines or arrows at any angle), Multiple Newspaper Style snaking columns, **PerfectPrint™** (the unique ability to use **Post Script™** outline fonts on absolutely any printer in either portrait or landscape) and Text Auto Flows around graphic objects and imported pictures (placed anywhere, scaled or cropped) with the highest print quality. Text can also be printed over graphics!



It's features like these that explain why there are some professional magazines, with 200+ pages, that are produced entirely with *Final Copy II*! Publishers, and many others, have quickly discovered that...

No other Amiga Word Processor in the same category, and at such a competitive price, has all the capabilities *Final Copy II* users have always taken for granted! Isn't it time for you to take a look too!

*SoftWood Direct Price: **£49.95***

SoftWood Direct...*the **best** software at the **best** price*...Order

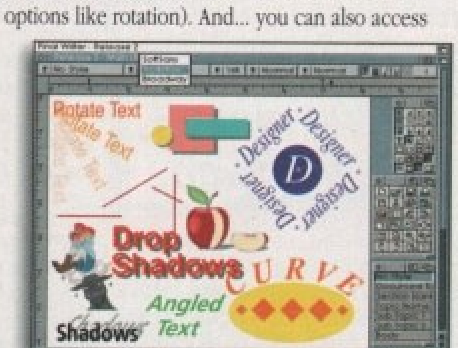
HELP ON MEMORY: Our products are the most economical in their use of memory. Like others, we quote the minimum memory required to load our software but we also like to make it clear that

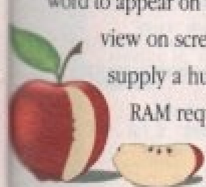
...our Laurels...



NEW *Final Writer* Release 2

Final Writer was launched last year with the power user in mind. It is the Amiga's only Hard Drive compulsory word processor - neither performance nor features have been compromised to maintain compatibility with floppy drive only systems. As well as having a unique list of features for the author of longer documents and publications - automatic indexing, table of illustrations, table of contents and bibliography generation - *Final Writer* with its **TextBlocks**™ was the first word processor to put a character (or group of characters) anywhere on the page, at any size and any angle. It offers a virtually unlimited ability for effects with graphics *and* text. Just like *Final Copy II*, *Final Writer* also includes **PerfectPrint**™ and has a set of tools to create structured graphics with new **FastDraw Plus**™ (now with additional functionality that includes new options like rotation). And... you can also access features unique to SoftWood with both the new **Touch Tools**™ & **PowerUser Bar**™ "one-touch" technologies. Simply 'clicking' a button, means you can define, change and save such things as the 'Paragraph Styles' (ie. Font, Font Size, Text Position, Bold, Italic, Underline etc.) and 'Layout Options' (left, right, centre or justified, bullets, line spacing, indents etc.). The options you have through single button selections are nothing less than remarkable! Indeed, one magazine heralded these as "the closest thing to Microsoft Word to appear on the Amiga"! Also uniquely, *Final Writer* can import, scale, crop, view on screen and output structured PostScript EPS clip-art images (we supply a hundred free with the package) to *any* printer (>2mb system RAM required). And... if you own a PostScript printer *Final Writer* is the only word processor with a set of output options including scaling, crop marks, thumbnails, and half-toning. Combine features like ARexx/Macros and **Text Clips**™, with others new to *Final Writer*, including floating palettes and UNDO/ REDO (on text, formatting *and* graphics actions) - and you have... ***Final Writer* Release 2.**




...tual Clip Art as Supplied



Available now from SoftWood Direct (and all other good Amiga software stockists) - offering you the...
Perfect Word Processing/Page Publishing Solution.

SoftWood Direct Price: **£74.95**

Hotline 0773 521606

...ar that a[...]ical software requires more memory - dependent on the functions being used.

SoftWood
New Street Alfreton Derbyshire DE55 7BP England
Telephone: 0773 521606 Facsimile: 0773 831040

Introducing - SoftWood *Direct*

We recently surveyed a sample group from of our tens of thousands of users asking for their opinions or comments about our software. The results were overwhelmingly positive with many users saying that **they regretted not buying *Final Copy II* or *Final Writer* much sooner!**

When we asked them why they hadn't, the most common answers were price and availability, combined with the fact that they often had another word processor they'd owned for some time - or had received free. They couldn't see the need to upgrade! Once they had however, and found just how much more easily and more productively they could work, and how much better the output could be from their own printer... **they couldn't believe what they'd been missing!**

When you can buy a brand new Amiga for under £300, it's obvious that software has got to be priced competitively. Even now though, some Amiga software vendors are raising their prices to counter faltering sales. Some even charge you, again and again, each time you call them for support! Our increasing sales mean we can now lower our prices to the best we've ever charged! Buying from SoftWood Direct ensures you get **the Best Possible Software at the Best Possible Price!**

But... don't just take our word for it; magazine reviews of Amiga word processors in the UK, and worldwide, have bestowed higher marks and more awards on *Final Copy II* and *Final Writer* than any others. We prefer not to say we're number one - the experts do it for us! Our packages have consistently been acclaimed for their "bullet-proof" reliability right from the day of launch. SoftWood software **works first time, every time!**

We listen to feedback from our users... and we act on it! We're so confident you'll be delighted with our programs, we now offer a no-risk chance to find out. SoftWood Direct's promise to you is that if you find we don't live up to any of our claims... **We'll give you your money back!** When you've decided you're completely happy, by simply returning your registration card you'll qualify for **free lifetime technical support**. And... Final Writer owners will also receive **50 additional outline fonts, completely free of charge**; Fonts that others may charge £££'s for.

Call Today... to find out what you've been missing!

3 Easy ways to Order

1. **BY PHONE** 0773 521606
2. **BY FAX** 0773 831040
3. **BY POST** ...to the address below

SoftWood *Direct*

DEALER ENQUIRIES WELCOME

ORDER FORM

ACO

Mr/Mrs/Miss/Ms: ________ Initial(s): ________ Surname: ____________

Address: ____________

County (Country if overseas): ____________ Postcode: ____________

Daytime telephone: ____________ Evening telephone: ____________

Please charge my credit/debit card as detailed below *(Please Tick)*...

'Final Copy II' UK & Overseas **£49.95** ☐ *'Final Copy II'* Non UK EC **£59.95** ☐

'Final Writer' UK & Overseas **£74.95** ☐ *'Final Writer'* Non UK EC **£84.95** ☐

(Card Authorisation Signature:)

Credit/Debit Card No.: ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Expiry Date: ☐☐/☐☐ Issue No.(Switch Cards Only): ☐☐

Cheque/Bank Draft/Postal Order for £ ____ payable to SoftWood Products Europe... ☐ *(Please Tick)*

PLEASE RETURN TO: SoftWood Products Europe, New Street, Alfreton, Derbyshire DE55 7BP.

1984 - 1994
10YEARS OF SUPERB SERVICE & LOW PRICES

TRILOGIC

BS5750 PENDING
ALL PRICES INCLUDE VAT

UNIT 1,
253 NEW WORKS RD,
BRADFORD, UK,
BD12 0QP   Est 1984
FAX 0274 600150

SALES 0274 691115

ACCESS VISA SWITCH DELTA CONNECT AMEX
SWITCH CARDS ACCEPTED FOR TELEPHONE ORDERS

FAST PROFESSIONAL MAILORDER SERVICE. SAMEDAY DESPATCH^
1) Order by phone using your credit, charge, or debit card.
2) Order by Mail - sending cheque bankers draft or postal orders payable to TRILOGIC.
3) Please add part postage & packing of £1.00 to small orders under £100 or £2.00 to small orders over £100.
Large/heavy or fragile items sent by carrier only: 48HR £5.50; Overnight £7.50 Uk Mainland only. Scottish Highlands £9.50; N.IRELAND. £12.00; EIRE +£20 UK Saturday delivery £14.00 (Not available to Scottish Highlands) Goods remain our property until paid for. ^Subject to goods being in stock.

SPECIAL OFFER
SAVE £20
FREE COLLECTION & FITTING SEE BELOW

AMIGA 1200 HARD DRIVES

FULLY INCLUSIVE PRICES

210MEG only £234.99
250MEG only £259.99
340MEG only £299.99
420MEG only £349.99
540MEG only £449.99

NO EXTRA CHARGE FOR FITTING.

Please phone for price & availability of smaller drives.

HARD DRIVE AMIGAS

A1200+80MEG	ONLY £449.99
A1200+170MEG	ONLY £499.99
A1200+212MEG	ONLY £514.99
A1200+250MEG	ONLY £539.99
A1200+340MEG	ONLY £579.99
A1200+420MEG	ONLY £619.99
A1200+540MEG	ONLY £699.99

OPTIONAL 2ND YEAR WARRANTY £27.99
ALL PRICES INCLUDE 12 MONTHS WARRANTY covering computer & drive. FREE PROMPT COLLECTION/ DELIVERY in the event of a breakdown.

PLEASE PHONE TO CHECK AVAILABILITY

PRICES SHOWN ABOVE INCLUDE THE RACE n CHASE PACK - ADD £50 FOR
COMPUTER COMBAT & INNOVATIONS PACK
Includes:- WORDWORTH 2, PRINT MANAGER, DAY BY DAY, PERSONAL PAINT 4, TOTAL CARNAGE, BRIAN THE LION & ZOOL 2

ALL DRIVES READY TO USE

* FORMATTED & PARTITIONED
* ALL OUR DRIVES FIT INTERNALLY WITH NO MODS TO CASE, OR FLOPPY DRIVE.
* FULL WORKBENCH INSTALLED.
* 12 MONTHS WARRANTY.
* JUST PLUG IN & GO.
* ONLY REPUTABLE MAKES of DRIVE USED Eg Conner, Western Digital etc.

AND REMEMBER...
If we fit the drive, we cover your computer for the remainder of its 12month warranty.

FREE COLLECTION & FITTING SERVICE

***FOR A LIMITED PERIOD, IF YOU ARE NOT LOCAL, WE WILL COLLECT, FIT ANY DRIVE OVER 200MEG & RETURN YOUR AMIGA BY 48HR CARRIER AT NO EXTRA CHARGE.** (NORMALLY £20)
You must mention where you saw this advert to qualify.
Offer applies to Uk mainland only & customers resident outside Yorkshire, subject to availability of drives, & ends 30-9-94.

SUMMER SAVERS

G-LOCK GENLOCK	NOW	£269.99
SWIFT 240COLOUR	NOW	£209.99
PROJET 11 PRINTER		£199.99
XDS DRIVE BOX	NOW	£49.99

ALL CD32 TITLES - BIG SALE
MASSIVE 30% OR MORE OFF RRP

AMIGA 4000

A4000 030EC

	2MEG	4MEG	6MEG
NO HD	£869	£899	£969
170M HD*	£949	£97[illegible]	£1049
212M HD*	[illegible]	[illegible]	£1069
250M HD*	£999	£1025	£1094
340M HD*	[illegible]	[illegible]	[illegible]
420M HD*	£1069	£1099	£1169
540M HD*	£1169	£1199	£1269

Phone for availability
PRICES INCLUDE FREE DELUXE PAINT 4 & WORDWORTH V2

MODEMS

US ROBOTICS
SPORSTER 14400 EXT £174.99
COURIER V32 & FAX £389.99
COURIER TERBO £449.99

PACE MICROLIN
POCKET FAX MODEM V32 .... £239.99

PRICES INCLUDE MODEM CABLE
ALL ARE BT APPROVED

PRINTERS

CITIZEN
CITIZEN SWIFT 90 MONO £149.99
CITIZEN SWIFT 90 COLOUR £159.99
CITIZEN SWIFT 240 MONO £204.99
CITIZEN SWIFT 240 COLOUR £209.99
PROJET II - INK JET £199.99

HP DESKJET
DESKJET 550 C £489.99
DESKJET 560C .... £
DESKJET 310 MONO £234.99
DESKJET 310 COLOUR £274.99
310 SHEET FEEDER £49.99

CANON
CANON BJ10SX £195.99
CANON BJ230 .... £329.99
CANON BJC600 LOWER PRICE £549.99
BJ10 AUTO SHEET FEEDER   £47.99

NEW **EPSON**
EPSON STYLUS 800 .... £259.99
EPSON STYLUS 720dpi COLOUR . £419.99

MONITORS

MICROVITEC 1438 14" HI-RES COLOUR MONITOR
14" ANTIGLARE SCREEN,
0.28mm DOT PITCH
DESIGNED ESPECIALLY FOR THE AMIGA
SWIVEL/TILT BASE,
PRESET AUTO PICTURE SIZE;
TRUE MULTISYNC - WORKS WITH ALL AMIGAS IN ALL MODES.+ PCs (SVGA)

only £289.99 inc leads

OPTIONAL STEREO SYSTEMS
SCREEN BEAT BUDGET STEREO .. £19.99
HIPOWER 20WATT STEREO SYSTEM £49.99

AMIGA 500 HARD DRIVES
GVP SERIES II HD8+ 170meg .. £349.99
GVP SERIES II HD8+ 340meg .. £449.99
GVP SERIES II HC8 + 170meg . £349.99
GVP SERIES II HC8 + 340meg . £449.99
SCSI DRIVES AVAILABLE FROM 170M - 2G please phone for price .....
VORTEX AT ONCE CLASSIC 286 PC CARD FOR A500/A500+/A2000 . £39.99

ALL PRICES INCLUDE VAT

D.I.Y.ERS
ANY DRIVE MAY BE PURCHASED FOR DIY FITTING AT THE ABOVE PRICES WHICH INCLUDE ALL CABLES & INSTRUCTIONS.

If you already have a drive, the cables are available separately:-
2.5"/2.5" IDE CABLE   £9.99
3.5"/2.5" ADAPTOR & CABLE   £21.99

DRIVE SIZES ARE APPROX & VARY WITH MAKE

A1200 ACCELERATORS

GVP A1230-2 40MHz
With 68882 socket for FPU. Has two 32bit simms skts & expansion connector.
WITH no fpu & 0meg £399.99
WITH 4MEG no FPU £429.99
WITH 4MEG & 40MHz 68882 .... £539.99

GVP A1230-2 50MHz
50MHz WITH no fpu & 0meg ... £364.99
50MHz WITH 4MEG no FPU £539.99
SCSI MODULE £74.99

VIDEO DEPT
GVP GENLOCK £269.99
MINIGENLOCK PRO £144.99

PRO VIDEO PROCESSOR NOW ONLY £139.99
A stand alone TWO input audio & VIDEO MIXER (with SVHS in/out). Has crossfade, fade to black, overlay; wipes, tint & 2 mic + stereo line inputs. AMAZING VALUE

VIDI 12 .... £ 78.99
VIDI 12RT £179.99
VIDI 24RT £249.99
ZYDEC B/W HAND SCANNER £109.99
ALFA DATA COLOUR SCANNER ... £329.99
GVP EGS SPECTRUM   FROM £339.99
EPSON GT6500 COLOUR SCANNER £689.99
EPSON GT8000 COLOUR SCANNER £1189.99
ADSC SOFWARE with scanner .. £98.99

AMIGA COOLERS
You may have read that some makes of A1200 accelerator are very prone to overheating - causing unpredictable behaviour & frequent 'crashes' as well as shortening the life of the expensive 68030/40 chips.
OUR range of AMIGA COOLERS cool down those overheating chips & improve airflow through the whole machine.
NEW FROM ONLY £14.99
Please specify make of accelerator fitted.
Fitting charge - from £5.00

TOP SOFTWARE
EDUCATIONAL TITLES SUFFIXED E
RESTOCKS,& NEW TITLES/VERSIONS IN RED

ASDG SCANNER SOFTWARE £109.99
ASDG PRO CONTROL £59.99
ADI JUNIOR RANGE .... £14.99 E
ADI RANGE .... £17.99 E
ALADDIN 4D V3 .... £199.99
AMOS £31.99
AMOS - EASY £23.99
AMOS 3D £22.99
AMOS COMPILER £19.99
AMOS PROFESSIONAL - DOWN TO £37.99
AMOS PRO COMPILER £23.99
ART DEPT PRO AGA 2.5 .... £149.99
BARS AND PIPES PRO V2 .... £229.99
BRILLIANCE 2 .... £173.99
CROSS DOS V5 .... £34.99
DAY by DAY £24.99
DELUXE PAINT 4AGA £64.99
DELUXE MUSIC 2 .... £64.99
DEVPAC 3 .... £57.99
DIRECTORY OPUS V4 .... £54.99
DISTANT SUNS V5 .... £49.99 E
ECLIPS 1 OR 2 .... £49.99
EDITMATE £189.99
FINAL COPY 2 r2 NEW VERSION £67.99
FINAL WRITER £99.99
FUN SCHOOL 3 RANGE .... £14.99 E
FUN SCHOOL 4 RANGE .... £17.99 E
FUN SCHOOL SPECIALS .... £18.99 E
GIGAMEM £54.99
GB ROUTE PLUS £35.99
GOLD DISK OFFICE 3 .... £44.99
HANNA BARBERAS ANIMATION ... £34.99
HYPERCACHE £37.99
HISPEED PASCAL £72.99
HISOFT BASIC £49.99
IMAGEMASTER RT £199.99
IMAGINE 3 UPGRADE £119.99
KID'S PIX £19.99
LATTICE/SAS C V 6.1+ £279.99
MAKEPATH FOR VISTA £29.99
MAILSHOT PLUS £39.99
MAXIPLAN V4 .... £25.99
MERLINS MATHS .... £17.99 E
MEDIA POINT £299.99
MICRO RANGE .... £17.99 E
MONTAGE 24 .... £279.99
MONEY MATTERS £49.99
MUSIC X 1.1 .... £24.99
NODDY'S PLAYTIME .... £17.99 E
NODDY'S BIG ADVENTURE .... £17.99 E
PAGESETTER 3 .... £41.99
PAINT n CREATE .... £17.99 E
PAGESTREAM 3 .... £249.99
PENPAL   STILL ONLY ... £35.99
PLAYMATION £289.99
PROFESSIONAL DRAW 3 .... £239.99
QUARTERBACK 6 .... £59.99
QUARTERBACK TOOLS DELUXE ... £99.99
REAL 3D PROFESSIONAL V2 .... £349.99
SPELLING FAIR .... £17.99 E
SUPERBASE PERSONAL 4 .... £119.99
SUPERBASE PROFESSIONAL 4 ... £239.99
SUPERJAM 1.1+ £89.99
SYSTEM 3E £59.99
TECHNOSOUND TURBO 2 .... £39.99
TERRAFORM £26.99
TURBOPRINT PRO V2 .... £34.99
VIDEO DIRECTOR £109.99
VISTA PRO 3 .... £57.99
WORDWORTH 3 aga £99.99

AT LAST ! A1200 CD ROM DRIVE. £199.00

DIY HARD DRIVE KIT
AMIGA 600/1200
XDS 3.5" HARD DRIVE
EXTERNAL HOUSING KIT
* COLOUR MATCHED ALLOY CASE
* TAKES 3.5" IDE DRIVES
* IDE ADAPTOR & 2.5" CABLE inc power connector.
* HD INSTALL / PREP DISK

NOW ONLY £49.99

TOP AMIGA GAMES
APOCALYPSE   £7 OFF = £18.99
AWARD WINNERS 2   £8 OFF = £21.99
IMPOSSIBLE MISSION £10 OFF = £24.99
CHAMPIONSHIP MANGR ITALIA .. £18.99
KICK OFF 3   £8 OFF = £21.99
OUT TO LUNCH   £7 OFF = £18.99
SIM CITY DELUXE   £8 OFF = £21.99
SIERRA SOCCER   £6 OFF = £18.99
STARDUST   £4 OFF = £12.99
K240   £8 OFF = £21.99
TEST MATCH CRICKET   £6 OFF = £18.99
WORLD CUP YEAR   £8 OFF = £21.99
REALMS   £3 OFF = £9.99
TACTICAL MANAGER   £7 OFF = £18.99
SETTLERS   £10 OFF = £24.99
JAMES POND 3   £8 OFF = £21.99
CRASH DUMMIES   £5 OFF = £14.99
ELFMANIA   £7 OFF = £18.99
HEIMDALL 2   £10 OFF = £24.99
SABRE TEAM   £8 OFF = £21.99
BATTLETOADS   £5 OFF = £14.99
BENEATH THE STEEL SKY £24.99
ELITE 2 FRONTIER   £8 OFF = £21.99
CANNON FODDER   £8 OFF = £21.99
MAN UTD PREM LEAGUE £8 OFF= £21.99
SKID MARKS   £7 OFF = £18.99
SENSIBLE SOCCER INTERNATNAL £14.99
STAR TREK   £10 OFF = £24.99

SAVINGS RELATE TO RRPs
ALL TOP 50 GAMES AT SIMILAR SAVINGS

32BIT RAM CARDS

0MEG	£69.99
1MEG	£94.99
2MEG	£129.99
4MEG	£194.99
8MEG	£389.99

BATTERY BACKED ON-BOARD CLOCK & FPU SOCKET

Made by Amitek
WITH OPTIONAL 68882 FPU.
20MHZ FPU ADD £49.00
25MHZ FPU ADD £59.00
33MHZ FPU ADD £69.00
40MHZ FPU ADD £99.00

3.5" AMITEK DRIVE
ONLY £54.99
ANTI VIRUS, ANTI CLICK, DISABLE SWITCH, THRU PORT, STEEL CASE, FOR ALL AMIGAS. 2YR WARRANTY.

BACKUP UTILITIES
X COPY PRO £25.99
inc MK2 Cyclone adaptor.
MK 1 CYCLONE ADAPTOR £9.99
NB. Making backups without the permission of the copyright holder is illegal.

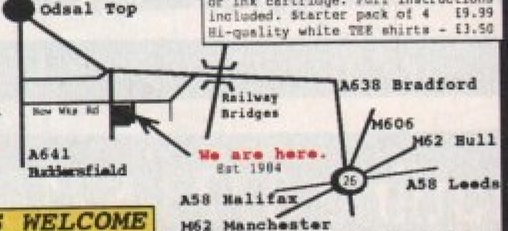
MISCELLANEOUS ITEMS
SEAL N TYPE KEYBOARD SKINS £12.99
KEEPS OUT DUST & LIQUIDS.
Fit snugly over your keyboard - moulded to fit over each key, but flexible enough to type through unhindered. Available for all AMIGAs - please state which.

2WAY PORT SHARER inc cable . £24.99
3WAY PORT SHARER inc cable . £27.99
4way PORT SHARER inc cable . £29.99
For scanners/samplers/printers etc
TV MODULATOR (exchange) £19.99
L520 TV MODULATOR - NEW £29.99

NEW
PRINT YOUR OWN TEE SHIRTS.
IRON ON Thermal transfer paper for dot matrix, inkjet & lasers in stock. Uses standard colour ribbon or ink cartridge. Full instructions included. Starter pack of 4 £9.99
Hi-quality white TEE shirts - £3.50

E&OE. Please phone before calling to confirm price & availability.

OPEN:
MON-FRI 9-6pm,
SAT 9-4.30
SUN -11-2PM



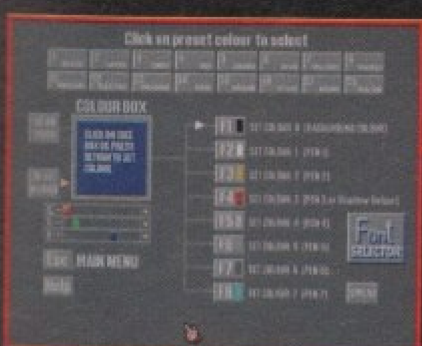
CALLERS WELCOME

PRICES WERE CORRECT AS OF 30-6-94, but some may have changed by the time you read this.
All registered Trademarks are acknowledged.Callers are most welcome but please phone first to check availability & avoid disappointment - we try to keep most items in stock unlike some of our competitors and will gladly put items aside for you to collect, but shortages of some items do occur from time to time. 1% surcharge applies to some items paid by Credit card - does NOT APPLY to debit cards - ie SWITCH/DELTA/CONNECT AND cash/cheq. 4% SURCHARGE ON ALL AMEX CARD SALES

Get silky smooth with the ultimate Scroller2 upgrade

The Scroller2 CoverDisk is just one part of the whole package. Make sure you complete your Scroller2 package, including manual, at this special offer price of just £21.50 (including VAT and P&P).

Scroller2 is a powerful, easy-to-use titling system for the whole Amiga range. For the smoothest continuous vertical or horizontal scrolling this is the software to use



Learn how to use the Scroller 2 with Amiga Computing

Scroller2's other features include

- Multiple fonts on screen simultaneously – including colour fonts
- Define and use up to eight colours from 4096
- Positionable drop shadow for each font in memory
- A variety of transitions including Teletype, Fade in and out
- 16 ultra smooth scrolling speeds

Complete this coupon and return it to;
Alternative Image, 6 Lothair Road, Leicester LE2 7QB

You can order by card on:
Tel: 0533 440-041
Fax: 0533 440-650

What you'll receive

The Backup Disk – Scroller2 is copy-protected so this disk is provided for emergencies.

The Utilities Disk – contains FileUtil and Grph2Fnt which allow you to copy text, pictures and fonts between AmigaDOS disks and Scroller2. This means you can import text from your word processor, logos from DPaint and your favourite PD fonts into Scroller2.

The Fonts Disk – contains another 13 fonts for use directly with Scroller2. These fonts include anti-aliased, outline and embossed character sets.

The Manual – tutorials, reference, trouble shooting and more...

Scroller2 order form

Please send me Scroller2 (the full product) at £21.50

Deliver to...

Name (Mr/Mrs/Miss/Ms) ____________________

Address ____________________

Postcode ____________ Daytime Telephone ____________

I wish to pay by...

☐ Cheque/Postal Order payable to Alternative Image, 6 Lothair Road, Leicester LE2 7QB
Credit Card (Visa/Mastercard)

Card no. ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ Expiry date ☐☐

Please allow 28 days for delivery

☐ *Tick this box if you do not wish to receive promotional material from other companies*

CALLERS WELCOME AT OUR BRANCH OPEN 9-6.00, MONDAY TO SATURDAY, (10-4.30PM SUNDAYS

Hobbyte

COMPUTING
ESTABLISHED 10 YEARS

10 MARKET PLACE
ST ALBANS HERTS AL3 5DG
TEL: (0727) 856005/841396

WARNING

Due to the exchange rate, or manufacturer's changes or due to current RAM shortage, some prices may alter, either up or down, during the several weeks between going to press and the end of the month of issue. We would ask that prices be confirmed by telephone before ordering.

CD PHOTO/GRAPHICS PACK FOR A4000

NOW FOR 1200 - PHONE

DTP YOUR OWN PHOTOS

Take high quality images from CD (CDTV, CD32 or your own photographs processed onto Kodak™ Photo CD) and input them for manipulation into any DTP or Art package in any IFF file format. Software provides full image processing and output support for 24-bit display cards such as Picasso, Retina, Picollo, Opal Vision, etc.

CD System includes: Toshiba CD ROM drive, SCSI II control and s/w............ £399.90
As above without SCSI............ £299.99

WHEN PURCHASED AT THE SAME TIME AS A4000

- CD SYSTEM AS ABOVE £30 OFF
- PICASSO OR RETINA £20 OFF
- ART DEPT PRO OR IMAGE FX £10 OFF
- PRIMERA PRINTER + 100 PRINT PACK £25 OFF

NEW INSTANT PHOTO SYSTEM

CANON RC260 ION CAMERA £299.99

Incorporates your pictures ***instantly*** into any Amiga DTP/Graphics/Video Package. No developing, just click, then digitize using Vidi 12 etc. or genlock with any SVHS compatible genlock. In-built time lapse, flash + auto white balance. 50 pics stored onto reusable camera disc, comes complete with battery charger, mains adaptor, disc and all leads.

CANON PRO RC560 ION CAMERA (Zoom, autofocus, SHVS in and out.) £2599.99
INTERFACE KIT FOR PC........ £199.00

DEALER ENQUIRIES WELCOME

ANY VIDI WITH RC CAMERA £20 OFF

RENDALE 8802 SVHS (FRED) WITH RC CAMERA £40 OFF

OLD AMIGA TRADE-IN*

The best trade-in allowance, extra for peripherals and accessories. Trade in your old machine for a brand new A600/1200/4000/CD[32] or even a PC. After trade-in, equipment is checked and refurbished by our engineers and is then offered at bargain prices, complete with 3 months warranty.

A500s FROM £139
A1500s FROM £199

A600 SD/HD ....from 159
A3000s ....from 499
CDTV........ 179
A590 20/40MB .129/159 ......
HDs + Controllers..from 179
GVP HD8 40/52...209/229
XT/AT BBoard........50/91

OTHER ACCESSORIES - PLEASE ASK.
*Acceptance of pre-V2 machines may be limited

EXT/ENHANCED WARRANTY
Get the best for Amiga eg: 3 yr CD[32]/A1200/4000 at home service £39.99
3d/A4000 SAME DAY £99.99
PHONE FOR FULL DETAILS

SPECIAL
Choose any* 3 CD discs for £59.90
*up to £34.99 RRP each
(see software section)

CD[32] MICROCOSM PACK

CD32 SOFTWARE

Over 75 titles specially written for the CD[32] should be in stock (phone for list), inc. Syndicate, Zool 2, Jurassic Park, Chaos Engine, many of which include a full CD music track alongside the game. About half of existing CDTV titles are compatible. CD[32] will also play normal music CDs and CD+G discs

CD32 Standard warranty is 12 months return to base.
12 months at home warranty £39.99
Extra 2yrs warranty £39.99

Now with CHAOS ENGINE and MICROCOSM
£239.99

AVAILABLE NOW!
CD32 FMV AND SXI

Full Motion Video module for CD[32].. £189.99
Microbotics SXI £189.90
Keyboard for SXI £49.50
Floppy drive for SXI £48.90

NO OTHER DEALER CAN BEAT OUR CREDENTIALS

- Multi-million company with 10 years experience in Commodore product and here to stay
- Commodore trained staff are friendly and helpful and are parents, multimedia, educational, games, programming or technical specialists (usually more than one!)
- Open 9-6 pm Monday to Saturday and 10.00 am to 4.30 pm Sundays PLUS December late nights on Thursdays (St Albans only) for convenient shopping.
- Callers welcome for advice and demonstration at our 1600+ sq ft High St, Town Centre branch
- Same day despatch for most orders received by 5.30 pm; express am and Saturday services available
- Hardware carefully handled and delivered safely and reliably by caged, insured, top name courier service
- Pre-despatch testing on Amiga systems
- Free 30 day courier collection and delivery of NEW replacement.(except product with on-site maintenance)
- Hotline support and in-house engineers
- Upgrade and trade in offers to keep you up to date
- Exceptional after sales service
- BFPO and export welcome

NOT JUST ANOTHER MAIL ORDER COMPANY

For years a major player in Amiga Mail Order, Hobbyte also boast extensive expertise and experience in specification and support of multi-machine and specialist systems. Hobbyte have been recommended and trained by Commodore and successfully won major orders and support contracts from London Boroughs, MOD, educational establishments etc. We are pleased to be placed on tender lists. This expertise is available to all our customers.

A4000/ 30 & 40

A4000/30: AGA Chip Set + 68030 processor, 68882 25/50 MHz co-processor option, 256,000 colours from 16.6M, scan doubling for flicker free display, Mouse, Amiga 3.5"/1.76 MB 3.5" drive, Hard Drive as below, Amiga DOS 3.0 system and utilities.

A4000/40LC: Desktop as above, but featuring the blistering 68040 processor, with full floating point facilities.

A4000/40TW: Tower with full 040/FPW/MMU processor with SCSI-II & IDE 1/Faces.

All above, full UK models with next day on-site warranty.

WARRANTY UPGRADES: Same Day Warranty £39.99
3yr Ext. Warranty £99.99

PRICE PROMISE
WE WILL MATCH OR BEAT ANY A4000 PRICE

HD SIZE MB	A4000/30 1+1MB SUBTRACT £60	A4000/30 2+2MB STANDARD VERSION	A4000/30 2+4MB SUPER EXP. VERSION	A4000/40LC 2+4MB	/40TW 2+4MB	EXTRAS
No HD		889		1449	1819	
80		939		1539	1929	
120/130		969		1589		
214		989		1629	1979	
240/260		1019				
340		1099			2039	
520/540		1269		1869	2259 SCSI-II	
1GB					2549 SCSI-II	
2GB					3199 SCSI-II	

1+1MB column: WARNING - 1+1MB A4000/30s will not run most serious AGA s/w/packages. If required, subtract £70 from 2+2MB prices

2+4MB column: ADD £80 • ADD £80 • ADD £80 • 2+4MB version comes with 2MB chip RAM + one 4MB chip of fast RAM, for on-board expansion to 16MB.

EXTRAS: Extra 2MB for 2+2 versions £99 • Extra 4MB for 2+4 versions £159 • 68882 copros - see 'Expansion' (across) • 128MB SCSI Optical Drive for backups £579 • Microvitec Autoscan 1438 monitor recommended £290

A4000/30 CO-PROS
68882 25MHz........ [illegible].99
33MHz........ [illegible]9.99
40MHz........ 89.99
50MHz........ 109.99
+ PHOTO GRAPHICS PACK SEE TOP LEFT

PRICE CHANGES TELEPHONE FOR INFO

LOVE & UNDERSTAND AMIGA'S - BUT CONSIDERING PC'S??

Hobbyte have the expertise to compare and advise you.
We have a complete range of PC's.
Multimedia products and software. All of which we are able to demonstrate to you side-by-side with the Amiga range.

There are many PC's. Good advice from the first purchase will prevent may mistakes.

EXAMPLES OF OUR RANGE

CALIBRA PC

VESA Local Bus
4Mb RAM (expanded to 128Mb)
3.5" 1.44Mb Floppy Disk Drive
1Mb Cirrus Logic Graphics Accelerator Card (VESA)
128k Cache
14" Colour SVGA 0.28DP Low Radiation Monitor
MS-DOS 6.2, Windows 3.1, Works
1 Year On-Site Maintenance

Hard Disk Size / Processor	170Mb	260Mb	340Mb
80486SX 25MHz	£999	£1059	£1099
80486DX 33MHz	£1159	£1199	£1249
80486DX2 50MHz	£1199	£1259	£1299
80486DX2 665MHz	£1399	£1459	£1499

LARGER DRIVE SIZES AVAILABLE

MULTIMEDIA

SOUND
MUSIC CREATION
GAMES
EDUCATION
CD-ROM
PHOTO CD
F.M.V.
CDI HOME MOVIES
ION PHOTO IMAGING
IMAGE CAPTURE
DESKTOP PUBLISHING
PHOTO REALISTIC PRINTING

Sound Blaster Pro Deluxe ...59.99
Sound Blaster AWE32 ......209.99
Panasonic CD CR562 ......179.90
Sony CD ROM 33A 179.90
Reel Magic FMV Card 399.99
Game Blaster MM Kit 359.00
MS Bookshelf 94 ......79.99
MS Encarta 79.99
MS Musical Instruments 44.99
Dinosaurs 19.99
Canon RC 260 Ion Camera 299.99
MS Publisher 83.49
Aldus Pagemaker 549.49
PC Digitizer Kit 199.99
Vidi PC 12 ......179.99
Corel Draw V4 ......316.49
Primax Colour Scanner 199.99
Epson Stylus 800 ......199.99
Epson Stylus Col Printer 499.99
Fargo Primera Col Printer .639.00
Photorealistic Kit 249.00

WITH ANY COMPUTER

CHAOS ENGINE, SYNDICATE, PINBALL FANTASIES, NICK FALDO'S CHALLENGE GOLF
ADD £17.99
OR LEMMINGS, SIMPSONS, CAPTAIN PLANET, PLUS D PAINT III
ADD £14.95

A1200

2MB Single Drive	279
+20MB HD	359
+60MB HD	419
+80MB HD	429
+120MB HD	479
+200MB HD	529
+340MB HD	679
Extra 4MB + clock fitted	ADD £200

**CBM APPROVED HARD DRIVES
Full legal installation/utility disc and documentation and come with CBM on-site warranty service.

DON'T FORGET YOUR STARTER PACK! ADD £15 (SEE VALUE PACKS BELOW)

SPECIAL
Citizen ABC 24 pin colour printer with sheetfeeder and Starter Pack ....ONLY £170

ALL A1200'S *INCLUDE FOC* NIGEL MANSELL AGA, TROLLS AGA AND COMPILATION PACK *3 Top games*

DESKTOP DYNAMITE PACK PLUS 2 HOT LIST TITLES ADD £44

KIND WORDS 3 ADD £9.99

WORKS PLATINUM ADD £19.99

NEW COMBAT/INNOVATIONS PACK ADD £44

STARTER PACK
10 Blank Discs, Virus Killer, Mouse Mat, Joystick, 80 Capacity Disc Box & Dust Cover.
WITH AMIGA £19 ALONE £29

HOT BUG GAMES PACK
10 'Hot List' Games, BUG Joystic, 80 Prog. Hobbyte PD Pack, 10 Discs, Mouse Mat, 80 Cap. Disc Box & Dust Cover
WITH AMIGA £44 ALONE £59

SERIOUS USERS PACK
1Easy Amos (or Amos Pro add £10), D.Paint III, 700 Clip- Pack, Midi Recording Studio - Midi I/F.
WITH AMIGA £39 ALONE £49

THE ULTIMATE SINGLE PLATFORM

- RUNS ALL LATEST PC. MAC & AMIGA SOFTWARE - ON ONE MACHINE

IT'S A MAC! IT'S A 486 PC!

- A4000, 68030 Amiga Processor
- 340MB Hard Disc and 10MB RAM
- 2MB, 24-bit Video Card
- Emplant Mac & PC Processor Card
- 14" Multi Mode Monitor & Stereo Speakers
- Work Bench 3, DOS 6.2, Windows 3.1, Mac System 7.1

MORE IMPORTANT - IT'S AN AMIGA!

SPEED - Faster than a Mac IICI
- Faster than PC 486 SX 25
DISPLAY - Up to 1600x1200 in all modes
SOUND - Built in Sound Blaster Pro Support

ALL FOR AN INCREDIBLE £2499

PERFORMANCE UPGRADES

- 17" High Res Monitor +£4
- 4mb Retina Z3 display Adaptor +£1
- 1.8 GB SCSI-II HD &I/F +£9
- G Force 040/33 Accelerator +£9

RECOMMENDED ADD ONS

CD Photographic Pack £3
Epson Colour Stylus Printer £3
Photorealistic Primera Colour Printer £8
Epson GT 6500 Scanner (600dpi) £6
Epson GT 8000 Scanner (800dpi) £8
Vidi 24Rt Frame Grabber £2
V-lab SVHS Frame Grabber £3
Canon RC260 ION Camera £2
Syquest 200MB Removable H/Drive £3

PRICE INCLUDES COMPLETE SYSTEM CONFIGURATION AND TESTING

MONITORS/ACCESSORIES

- [illegible] 1084/1085 + leads ... 194.90
- [illegible] .28 dpi AGA monitor + speakers ... 339.90
- [illegible]TEC AUTOSCAN 1438 14" .28dp low radiation 15-40kHz for [illegible] variable scan rates between 15KHz (default on boot-up) and 40 [illegible] modes in this range. With tilt and swivel ... 294.90
- [illegible] 1440 14" .28dpi (with full screen control) ... 399.90
- [illegible] .28dpi for 1200/4000 as above, but 20" ... 1039.99
- [illegible] 1782, 17" .27dpi, 29-82 KHz horiz. scan ... 889.99
- [illegible]/Microvitec (not required for 4000) or 1438 ... 19.99
- [illegible] 1537 31-62kHz 14" ... 519.90
- [illegible] 2110 21" ... 1790.90
- Stereo Speakers + Protracker ... 17.49
- Zy-Fi Speakers ... 37.90
- Zy-Fi Pro Speakers ... 57.90

ACCELERATORS

[illegible]/2000/4000

- [illegible] ... 684.99
- [illegible] ... 984.99
- [illegible] for A4000 ... 1239.90
- [illegible] ... 189.90
- [illegible] Processor Accel. ... 499.99

1200

- GVP A1230 II 40MHz ... 239.90
- GVP A1230 II 40MHz 4MB ... 439.99
- GVP A1230 II 50MHz 4MB +MMU ... 559.99
- A1291 SCSI Module for 1230 ... 74.99
- MBX1230/50MHz/4MB/50MHz FPU ... 549.99

BACKUP

- [illegible] 250MB Tape Streamer ... 349.90
- [illegible] ... 459.90
- [illegible] (1 included with above) ... 24.99
- [illegible] 2GB + DAT tape ... 759.00
- [illegible] 4GB + DAT tape ... 1049.00
- [illegible] cartridge ... 15.00
- 128MB int. SCSI optical drive ... 579.90
- 128MB discs for above ... 29.95
- Quarter V6 for above ... 68.50
- Syquest Removable Hard Drive 88MB ... 249.00
- Syquest Removable Hard Drive 200MB ... 399.00
- Media for the above ... 79.00
- SCSI-II Controller (for above) ... 98.99

HARD DRIVES

- [illegible] ... 149.99
- [illegible] ... 219.99
- [illegible] ... 299.99
- [illegible] ... 349.99
- [illegible] ... 399.99

[illegible]1200 HD UPGRADES

	SELF FITTING* (on-site [illegible])	CBM APPROVED FITTING** (with on-site)
[illegible]	89.99	-
[illegible]	169.99	234.00
[illegible]	199.99	274.00
[illegible]	254.99	314.00
[illegible]	279.99	-
[illegible]	329.99	-

[illegible] £14.99 for Hobbyte fitting
[illegible] courier collection & delivery

OVERDRIVE EXTERNAL HDs

- [illegible] HD ... 139.50
- [illegible] HD ... 219.00

- Overdrive 35 120/130MB HD ... 239.00
- Overdrive 35 220/250MB HD ... 289.00
- Overdrive 35 340MB HD ... 329.00
- Overdrive 35 540MB HD ... POA

1500

- GVP HD8 Controller ... 119.99
- GVP HD8/42MB ... 189.99
- GVP HD8/120MB ... 269.99
- GVP HD8/170MB ... 319.99
- GVP HD8/270MB ... 369.99

A4000

- 80MB IDE ... 119.99
- 120MB IDE ... 179.99
- 214MB IDE ... 199.99
- 240/260MB IDE ... 219.99
- 340MB IDE ... 239.99
- 420MB IDE ... 259.99
- 540MB IDE ... 369.99
- ½ GB SCSI (S) ... 439.99
- 1GB SCSI (S) ... 719.99
- 1.7GB SCSI (M) ... 999.99
- 1.8GB SCSI (Q) ... 1089.99
- 2GB SCSI (S) ... 1239.99

SCANNERS & DIGITISERS

- [illegible] 6500, 600dpi 24 bit A4 inc. ASDG Scan s/w + cable ... 679.00
- [illegible] 8000 800dpi 24 bit A4 inc. ASDG Scan s/w + cable ... 889.90
- [illegible] Adaptor for above ... 499.00
- [illegible] Hand Scanner, 400 dpi, 64 Greyscale, V3 Powerscan software ... 98.90
- [illegible] Hand Scanner 4 256 Greyscale + s/w ... 118.99
- [illegible] for Power Scanner ... 48.50
- [illegible] Colour Hand Scanner V4 ... 238.49
- [illegible] A6 Scanner + scanlab s/w up to 18 bit ... 469.99
- [illegible] II A4 with s/w/A3 Tablet Digitiser ... 359.99/ ... 529.99
- [illegible] real time digitiser 1200/600/500 ext ... 334.99
- [illegible] real time digitiser 1500/3000/4000 int ... 289.99
- [illegible]/3000 int SVHS ... 334.99
- [illegible] ... 64.99
- [illegible] ... 134.50
- [illegible] ... 219.99

AMIGA 24 BIT HARDWARE

HARLEQUIN 32 BIT FRAMEMAKER ... GENLOCK INCLUDED FREE ... **£1149**
• **16.7 million colour** photo realistic display • **real time 24 bit animation** • **Alpha Channel** - superimpose high quality graphics onto live signal, or smoothly blend paint images • **Double Buffering** - 2, 24 bit displays instantly available
SUPPORTS: TV Paint, Vlab, Caligari, Sympatica, Ad Pro, Real 3D + others

PICASSO II 24 BIT GRAPHICS CARD ... TV PAINT JNR + [illegible] ACTOR (ANIM) FREE ... 1MB **£284.95** / 2MB **£319.95**
Built in Blitter, super fast screen updates. Can use fast RAM as graphics memory removing the 2MB restriction.
New screen modes simply appear in your applications, selectable from the standard screen mode selector

- VIDEO ENCODER FOR PICASSO II ... **£144.95**
- TV PAINT V2 INSTEAD OF TV PAINT JUNIOR ... **ADD £150**

RETINA Z II 24 BIT GRAPHICS CARD ... **£469.95**
Resolutions to 1900x1426, 4MB, double buffering, Zorro II auto configuring, compatible with Adpro, Morph+, Pro Page, Pro Write, Pagestream, Image FX etc. + Vlab.

RETINA BLT ZIII 24 BIT GRAPHICS CARD
Pure Zorro III for lightening performance with no wait-state. No change to Buster Chip required. ... VD PAINT 24 BIT REAL TIME PAINT S/W FREE WITH ZII + ZIII ... **£589.99**

PICCOLO 24 BIT GRAPHICS CARD
16.7 million colours, on-board blitter, 1MB exp to 2MB video RAM, fully programmable resolution, double buffering + multiple screen + AREXX. support.
Supports leading graphics packages/applications. ... TV PAINT JNR FREE **£379.99**

RAINBOW III 24 BIT GRAPHICS CARD + VIDEO CONTROLLER
Similar to Piccolo but with 4MB video RAM, prog res to 1600 x 1280, built in video controller inc. 110MHz clock. ... TV PAINT JNR FREE **£1489.99**

- **OPAL VISION** 24 bit grahics board ... **£339.99**
- video Processor for Opal Vision WITH VOUCHERS ... 647.99
- Video Suite for Opal Vision WITH VOUCHERS ... 647.99
- Scan Rate Converter for OpalVision WITH VOUCHERS ... 647.99

WITH OPAL VISION, OPAL PAINT, OPAL ANIMATE, OPAL HOT KEY FREE

GVP EGS 28/24 SPECTRUM 24 BIT CARD: ... EGS SPECTRA PAINT FREE ... 2MB **£389.90**
Real time colours up to 1600x1280 or 800x600 in 24 bit ... 4MB **£1389.90**

PEGGY MPEG VIDEO CARD ... **£479.99**
Take 24 bit animations from disc or other storage devices and replay in real-time through the Amiga! Use integrated genlock to overlay Amiga graphics for sophisticated titling and special effects, to produce stunning promotional/training videos, or games with live video footage. Near SVHS quality, 16.7M colours, MPEG tools + library functions, 25 frames/sec playback.

- YC Output module for Peggy ... 129.99
- MPeg encoder option for Peggy ... 349.99

GVP TBC PLUS REAL TIME FRAMEGRABBER/TIME BASE CORRECTOR **£689.90**
Professional quality (CCIR-601) digital TBC using state of the art 8 bit 4:2:2 video signal processing, 16.7 million colours frame buffer, transcodes composite + Y/C input, 3 channel video input switcher, programmable video effects.

- 1MB frame buffer for above ... 194.90
- Digital Comb Filter for above ... 57.90
- GVP IV + VIUS ... 739.90
- GVP IV + VIUCT ... 1,189.00

IMAGE FX 1.5 FREE

EMULATION

- G GATE 386SX 25MHZ ... POA
- GVP 40/4 FOR 1500 ... 945.99
- AT ONCE ... 214.99
- 386/486 BRIDGEBOARD ... POA

EMPLANT MAC EMULATOR

Runs all known s/w - exceptional fast compatibility in full colour, supports graphics cards (Picasso, Retina etc). Multi-tasks any combination of Mac/Amiga applications with full file transfer - even cut/paste between Mac/Amiga. With stereo sound + supports HD's etc. via in-built SCSI option, Appletalk option available.

- EMPLANT BASIC ... 289.95
- EMPLANT APPLE TALK ... 339.95
- EMPLANT SCSI ... 339.95
- EMPLANT DELUXE (Appletalk + SCSI) 389.95

NB: Above for any Zorro equipped Amiga. Needs 68020/30/40 + 4MB Mac II/x/cx/SE30 ROMS

- 486 PC EMULATOR FOR EMPLANT ... 95.90

STOP PRESS
EMPLANT PCMCIA FOR 1200
£289.95

SOFTWARE

[illegible]RAPHICS/CAD

- [illegible] ... 213.99
- [illegible] ... 17.90
- [illegible] Expression AGA ... 134.90
- [illegible] Pro 2.5 ... 129.90
- [illegible] Prof Conversion ... 48.99
- [illegible]Control ... 54.90
- [illegible] Scanner Controller ... 119.00
- [illegible] ... 68.99
- [illegible] 24 ... 94.90
- [illegible] Broadcast 3 ... 396.90
- [illegible] Morph ... 29.99
- [illegible] ... 74.90
- [illegible] Paint IV ... 53.99
- [illegible] Paint AGA ... 59.90
- [illegible] Animation ... 56.90
- [illegible] ... 49.49
- [illegible] ... 69.99
- [illegible] Draw ... 39.90
- [illegible] ... 39.49
- [illegible] ... 89.90
- [illegible] FX V1.5 ... 187.90
- [illegible] v2 ... 149.99
- [illegible] v3 ... 449.99
- [illegible] Master AGA ... 139.90
- [illegible]CAD Plus ... 46.99
- [illegible] Wave" AF GOLD ... 769.90
- [illegible] + ... 138.99
- [illegible] 3D Pro ... 59.90
- [illegible] CD ... 84.99
- [illegible] 3 ... 59.90
- [illegible] 3D Classic ... 78.90
- [illegible] 3D v2 ... 374.50
- [illegible] HT100 ... 49.99
- [illegible] Pro MM211 ... 132.90
- [illegible] Echo EE100
- [illegible] Editor for Scala 300) ... 132.90
- [illegible] Pro MM300 ... 294.90
- [illegible] Anim 4D ... 198.99
- [illegible] Colour ... 57.99
- [illegible]PATICA II PLUS FREE [illegible] Timelapse VTL
- [illegible] stunning timelapse sequences [illegible] opening, clouds, with [illegible] light/ motion etc., [illegible] trigger inc. deck
- [illegible] ... 329.99
- [illegible] only ... 189.99
- [illegible] 2 ... 32.99
- [illegible] 24 V2.0 ... 169.90

- Vista Pro Lite (2MB) ... 42.49
- Vista Pro 3.0 (6MB) ... 49.99
- Vista Makepath ... 24.99
- X CAD 2000 ... 79.99
- X CAD 3000 ... 229.95
- X CAD 2 to 3 upgrade ... 194.99

VIDEO PROD/ TITLING

- A Video + TV Paint V2 ... 588.90
- Adorage II ... 68.50
- AmigaVision ... 17.90
- **NEW-Broadcast Titler AGA Super High res** ... 159.90
- Broad T Font Enhancer ... POA
- Broad T Font Pack ... POA
- Frame Machine ... 329.90
- Imagemaster AGA ... 159.99
- Montage 24 AGA ... POA
- Morph+ ... 138.99
- Pro Video Plus ... 137.99
- Scenery Anim 4 ... 48.90
- Scroller II ... 59.99
- TV Record ... 189.99
- TV Show Pro ... 51.39
- TV Text Pro ... 79.50
- Video Studio 3 ... 115.95
- Video Director ... 118.90
- Video Effects 3D ... POA
- Video Master ... 49.49
- Vidi Amiga 12 V2 ... 74.99
- **VIDI SOUND & VISION** Vidi Amiga 12 with Megamix Master ... 94.99
- Vidi 12 Real Time ... 134.50
- Vidi 24 Real Time ... 219.99

EDUCATIONAL

- Any Fun School 3 or4 ... 15.99
- "New" ADI GCSE ... 26.99
- Any other ADI ... 16.99
- Merlin's Maths ... 16.99
- Paint & Create ... 16.99
- Spelling Fair ... 16.99
- Any Noddy ... 16.99

See also software packs

UTILITIES/LANGUAGES

- AMAX II Plus ... 249.99
- Ami back + A Tools ... 59.99
- Amos 3D ... 21.49
- Amos the Creator ... 30.95
- Amos Compiler ... 19.49
- Amos Prof. ... 32.99
- Amos Prof. Compiler ... 24.99
- Easy Amos ... 22.49
- Blitz Basic 2 ... 48.90
- CanDo 2.5 ... 93.50
- Cross Dos v5 ... 29.75
- CygnusEd Pro 3.5 ... 69.75
- Directory Opus 4 ... 43.90
- Dir Work II ... 43.90
- GB Route + ... 32.50
- Gigamem ... 47.50
- SAS/Lattice C V6.5 ... 229.99
- PC Task ... 34.99
- Quarter back V6 ... 68.50
- Quarter back Tools Deluxe ... 69.99
- **PEGGER** - Vital for graphics-users! ... 79.95
  Fully integrated JPEG utility gives enormous hard disc space savings - 100MB of framestores will compress to under 10MB. 'Snoop' gives JPEG capability to programmes that don't otherwise support JPEG, such as DPAINT IV AGA, so they can load + save JPEG files.
  Amiga DOS 2 and 3 compatible AREXX, 24 bit IFF, DCTV, Toaster and Ham 8 Support.
  Fast, seamless background operation
- TRAPFAX Comms s/w ... 49.99
- True Print 24 ... 47.90
- **VIDEO TAPE BACKUP UTILITY** ... £57.50
  Backup upto 120MB onto one 3 hour tape
- Xcopy Pro ... 31.50

APPLICATION

- Arena Accounts ... 82.50
- Excellence 3 ... 89.90
- Final Copy V2 ... 46.99
- Final Writer ... 69.99
- Home Accounts 2 ... 48.90
- Kind Words III ... 17.90
- Maxiplan Plus v4 ... 17.90
- Mini Office ... 37.49
- Money Matters ... 45.40
- **Pagestream 2.22** ... 62.90
- **Pagestream v3.2** 19.90 Money AF **GOLD WINNER**
- Pagesetter 3 AGA ... 41.90
- Pen Pal 1.5 ... 28.50
- Pers Finance Man + ... 29.50
- **Professional Page 4.1 AGA** RATED as the current top DTP package by the independant magazines, 94% AF 119.49
- **SPECIAL ProPage 4 & ProDraw 3** - professional illustrator's Bath for ONLY ... £159.99
- Proper Grammar ... 35.90
- Protext 6 ... 109.50
- Publisher ... 17.90
- Saxon Publisher ... 177.95
- Superbase Personal 4 ... 78.90
- Superbase Pro 4 V1.3 ... 214.99
- Typesmith ... 118.90
- Wordsworth 3 ... 64.49
- Works Platinum ... 38.99

MUSIC

- AD 10/12 Studio 16, 12-bit Sampler ... 499.00
- AD 5/16 Studio 16, 16-bit Sampler ... 1159.00
- Audio Engineer +2 ... 159.99
- Audio Master 4 ... 41.49
- Bars & Pipes 2 ... 225.90
- Clarity Sampler ... 104.99
- Deluxe Music Const II ... 57.99
- GVP DSS 8-PLUS ... 64.90
- Megalosound sampler ... 23.90
- Midi Interface ... 19.95
- Miracle K'board/Tutor ... 277.99
- Music LabFX ... 39.50
- Rombo Megamix Mstr ... 26.50
- Technosound Turbo 2 ... 25.99
- Waretools 16 bit sound system 299.99
- RTX Module ... 249.99
- Waretools + RTX Module ... 529.99

LEISURE TOP SELLERS

- Arcade Pool ... 7.99
- Battle Chess ... 14.99
- Blade of Destiny ... 24.49
- Body Blows Galactic AGA ... 23.90
- Cannon Fodder ... 18.99
- Championship Manager ... 16.49
- Chaos Engine ... 6.99
- Dogfight ... 25.99
- Elfmania ... 22.99
- Elite II ... 22.90
- Epic ... *9.99
- Goblins 3 ... 25.99
- Gunship 2000 ... 24.99
- Heimdall 2 ... 27.99
- Indiana Jones ... 23.99
- K 240 ... 25.99
- Lemmings 2 ... 18.90
- Manchester United ... 22.99
- Monkey Island II ... 23.99
- Putty ... 12.99
- Robocod AGA ... 15.69
- Sensible Soccer ... 15.95
- Their Finest Hour ... 5.99
- Total Carnage ... 22.99
- Trivial Pursuit ... 9.99
- Zool 2 ... 19.99

CDTV/CD³² DISCS
SPECIAL - ANY 3* ... 59.90
Loads available - Phone - inc.

- Arabian Nights ... 11.90
- Battlestorm ... 21.90
- Casa/Cautious Condor ... 27.90
- Castles 2 ... 21.90
- •Cinderella ... 29.90
- DGeneration ... 21.90
- Deep Core ... 21.90
- •Fantastic Voyage ... 27.90
- INSIGHT: Dinosaurs ... 39.95
- James Pond 2 ... 23.50
- Jurassic Park ... 27.99
- •Lemmings ... 8.40
- Lotus Turbo Trilogy ... 27.90
- Luna'c/Overkill ... 21.90
- NASA Heroic Age ... 17.40
- NOW Games 1 ... 16.49
- NOW Games 2 ... 16.49
- Microcosm ... 32.90
- •Pandora 2,000 Clip Art & 99 Sounds ... 4.79
- •Scarry Poems/Rotten Kids ... 32.5.0
- Sensible Soccer NAGA ... 18.90
- Super Putty AGA ... 11.90
- •Tale of Benjamin Bunny ... 32.50
- Whales Voyage ... 21.90
- Winter Super Sports ... 21.90
- Zool II ... 21.90

• Also CDTV compatible
*up to 34.99 RRP

GENLOCKS/MODEMS/FAX

- Rendale 8802 FMC ... 159.95
- Rendale 8802 SVHS ("Fred") ... 249.99
- Rendale 8806 ... 469.99
- Hama Genlock 40292 + FREE "Easy Effect" RRP £70 ... 262.89
- Hama Genlock 40290 ... 689.90
- GVP G-Lock ... 283.90
- Rocgen+ 1200 compat ... 138.50
- Rocgen Rockey ... 289.99
- Rocgen +Rockey Bundle ... 419.99
- US Robotics Sportser 2400 Fax/Modem ... 99.99
- US Robotics Sportser 14,400 Fax/Modem ... 149.99
- Rocket Ranger 14,400 Fax/Modem ... 229.99
- *TRAPFAX Comms s/w (Class 2 only) ... 49.99
- Phone Pak VTX Automated, scheduled Voice Mail/Faxing, send faxes from any programme that prints, call in remotely + retrieve faxes sent earlier, call routing etc. ... 339.90
- LIANA PARRALLEL NETWORK (with CBM Envoy s/w) ... 59.99

CD-ROM & FLOPPY DRIVES

- Zappo 3.5 external drive, daisychain + on/off ... 48.50
- NEW AMITEK (Sony) 3½" Ext. Drive anti-click/anti-virus ... 56.50
- CD ROM Drive for 1200 (runs CD³²/Photo CD) ... 189.99
- High density 1.76MB ext. drive for any Amiga (WB 2) + 10 HD Discs ... 94.95
- A500/A600/1200 replacement internal floppy (specify) ... 39.99
- Toshiba 4101 ext SCSI CD Drive ... 259.99
- Apple CD 300 Ext SCSI CD Drive ... 199.45
- Toshiba 4101 Int SCSI CD Drive ... 199.45
- SCSI-II Controller ... 98.99

EXPANSION & ACCESSORIES

- A500 512k Ram Exp+Clock ... 21.99
- A500+ 1MB exp ... 29.99
- A601 ... 37.99
- A600/1200 2MB exp (card) ... 115.99
- A600/1200 4MB exp (card) ... 169.99
- CBM 2.04 upgrade kit ... 74.99
- A500 Rom Sharer 1.3 ... 37.95
- A500 Rom Sharer 2.04 ... 38.95
- A500/600/1200 printer centre 28.99
- A500/1200 control centre ... 27.90
- Amitec Modulator ... 32.99
- Disc Expander ... 34.90
- 50 Blank DS/DD discs ... 17.99
- 50 Blank DS/HD discs ... 27.99
- DKB 1202 bare ... 74.95
- DKB 1202/2MB ... 144.95
- DKB 1202/4MB ... 204.95
- DKB 1202/8MB ... 334.95
- Amitech Hawk + clock 2MB ... 133.50
- Amitech Hawk + clock 4MB ... 193.50
- Amitech Hawk + clock 8MB ... 396.50
- 68882 25MHz + crystal ... 49.99
- 68882 33MHz + crystal ... 59.99
- 68882 40MHz + crystal ... 79.99
- 68882 50MHz + crystal ... 109.99
- 10 Blank DS/DD discs in box ... 4.99
- 10 Blank DS/HD discs ... 6.99

FPUs- SEE BELOW

PRINTERS

2YR WARRANTY WITH CITIZEN

	ALONE	WITH STARTER PACK
Citizen 120+D	111.99	ADD £12.99
Star LC 100 9 pin col	113.90	
Citizen 90 mono*	131.49	
Citizen 90 colour*	149.99	
Star LC200 col	178.49	
Star LC 24-20 II	144.99	
Star LC 24-100 24 pin	119.90	
Star LC 24-200	179.99	
Star LC 24-200 col	199.49	
Panasonic KXP 2123 col	179.49	
Epson LQ 100	147.99	
Epson LQ 150 colour	209.99	
Epson LQ 570	231.99	
Epson LQ 870	439.90	
Epson LQ 1170	507.90	
Citizen ABC Mono	143.99	
Citizen ABC colour +s/feed	159.99	
Citizen S200 24*	169.99	
Citizen S200 24 col*	174.99	
Citizen S240*	189.99	
Citizen S240C col*	199.99	
Citizen S24x col*	325.90	
Star LC24 - 30 Col	188.90	
Star LC24 - 300 Col	229.90	
Citizen col Note. Printer III	269.90	

	ALONE	WITH STARTER PACK
UNBELIEVABLE INKJET PRICES!!		ADD £12.99
HP Deskjet 310	219.90	
HP Deskjet 310 colour	259.90	
Epson Stylus 300	179.90	
Epson Stylus 800	199.00	
Epson Stylus Colour	499.99	
Citizen Projet II	209.90	
HP Deskjet 520	249.99	
HP Deskjet 500col§	319.99	
HP DESKJET 550C§	419.99	
HP Deskjet 560C	489.90	
HP Deskjet 1200C	1149.99	
Canon BJ10SX Port	184.50	
Canon BJ 200	244.99	
Canon BJ 230 A3	329.99	
Canon BJ 330 A3	492.99	
Canon BJ 300	384.99	
Canon BJC 600 Col	519.50	
Canon BJC 800	1426.99	
Star SJ 48	191.99	
Star SJ 144	346.49	
STAR LASER Wintype 4000	395.90	
Sharp 9400 (6ppm)	529.00	
Panasonic KXP 4410	449.90	
Panasonic KXP 4430	639.90	
Epson EPL 5200	512.90	
Star LS 5 laser	469.90	
HP Laserjet 4L	579.99	
HP Laserjet 4 Plus	1199.00	
Star LS 5ex 5ppm 2 bin	629.90	

Starter pack: 500 Sheets A4 paper, Amiga to printer lead, Universal Printer Stand & Driver* with Print Manager
§Studio driver/Utility (WB 2 & above) highly recommended ADD £39.95

PRIMERA COLOUR PRINTER...£639.90

If you've admired the saturated colours of the Mitsubishi and other thermal wax printers at exhibitions, but couldn't afford the £4000+ price tag, the Fargo Primera is the printer you're looking for. Less than a third of the price of the nearest rival,
Primera offers: • Photo-quality, rich bright colours • Up to 4 times faster than ink jet • Cost per page less than ink jet. • A4, transparencies + T-shirt transfer paper printing

- COMPLETE WITH AMIGA DRIVER (WINDOWS OR MAC DRIVER IF PREFERRED) AND AMIGA LEAD ... £689.00
- PHOTO REALISTIC KIT (10 PRINTS) ... £189.00
- PHOTO REALISTIC REFILL KIT (100 PRINTS) ... £249.00

PHONE FOR PRINT SAMPLES
FULL RANGE OF CONSUMABLES AVAILABLE

NO DEPOSIT CREDIT AVAILABLE (subject to status), 27.8% APR, written details on application. All major debit cards accepted, no surcharges.

NOTE SEE WARNING TOP LH PAGE

ORDERING:

TELESALES NO: 0727 856005 FAX: 0727 834944

Same day despatch for debit or credit card orders placed before 5pm subject to availability. Alternatively send cheque, postal order, bankers draft or official order (PLCs, Education and Government bodies only) to: Dept AC, Hobbyte Computer Centre, 10 Market Place, St. Albans, Herts AL3 5DG. Please allow 7 working days for cheque clearance. Subject to availability, despatch is normally within 24 hours of receipt of cleared payment. Prices are correct at time of going to press, however, we are sometimes forced to change them, either up or down. Please check before ordering. Additional services and different packages may be offered in our showrooms, and prices may vary from Mail Order prices. Personal callers are asked to quote this ad to ensure Mail Order packages are offered.

DELIVERY CHARGES: UK MAINLAND (NOT HIGHLANDS)

Small consumables & software items	Despatched by post, please check charges when ordering
Other items, except lasers	Next day courier service, £10 per box
Offshore and Highlands	Please enquire

IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES:

Saturday deliveries	£20
Am next day	£18

NO DEPOSIT CREDIT FACILITIES
Credit terms at 27.8% APR (variable) can be arranged for purchases over £150, subject to status. Competitive leasing schemes are also available for businesses, including sole traders and partnerships. Just telephone for written details and application form.

TELE-ORDER (0727) 856005

• HP AUTHORISED DEALER • CITIZEN DEALER PLUS • Amiga prices, except where stated are inc. VAT. E&OE

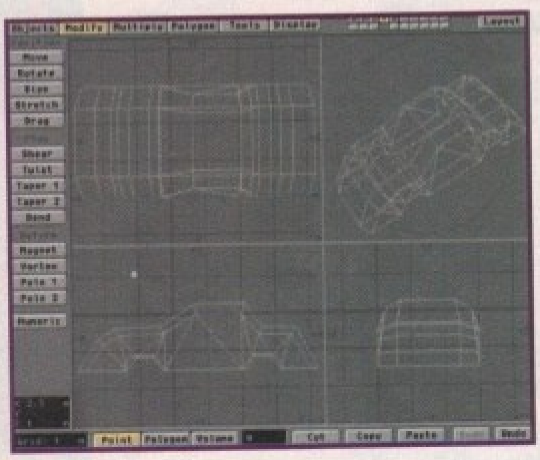
The second

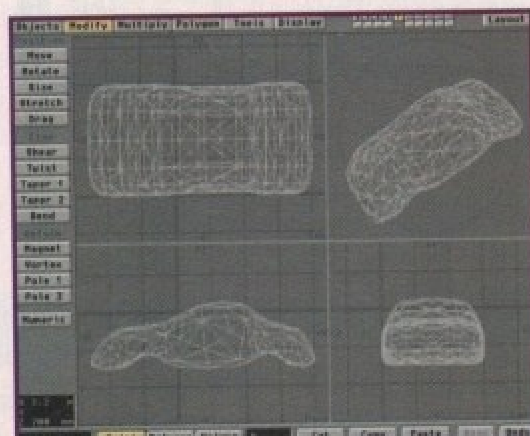
As one unfortunate Amiga magazine prematurely put it last year, "It's here!" Yes, LightWave 3D, the software we've all been baying for has finally been unleashed by its NewTek masters in a PAL-friendly form without the Video Toaster or the need for expensive and quality-reducing standards conversion.

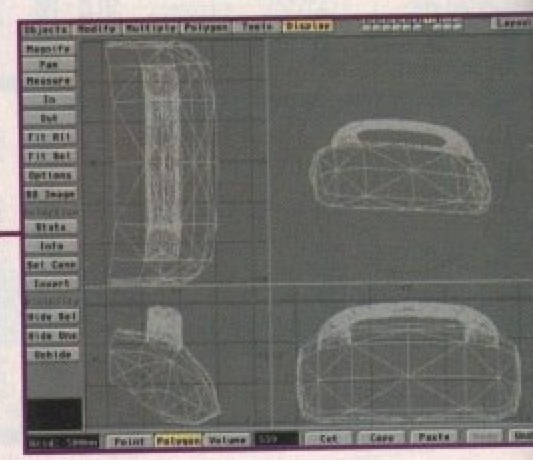
For so long the exclusive property of those lucky North Americans, LightWave has quickly built itself a reputation in the US and Canadian visual media as one of the best and most cost effective graphics packages available on any machine. Now it's available to videographers in Britain and Europe, and it's even better than before.

A host of improvements and tweaks have been incorporated at the request of users such as RoboCop's Lee Wilson and his team, the results of which give LightWave an impressive edge on the competition. Just about every menu and screen has seen some sort of change, small or large, but probably the most exciting for the future is LightWave's new modular design.

Referred to by NewTek as "Plug-In Technology", the modular approach means that third party developers can integrate their own products with version 3.2. Everything from display cards to new object formats can be catered for and, with the size of the US LightWave third party industry which has spawned an entire range of add-ons, it won't be long before users are plugging in all sorts of new features.







A fistful of features

LightWave's new Metaform subdivision option makes it easy to create smooth, organic objects from bulky, faceted beginnings and is one of the best of the new features

LightWave 3.2 incorporates several important changes over 3.1. Some of them, such as the use of sliders to control numerical values like luminosity levels, are cosmetic and designed to improve the program's user friendliness, but others are far more solid.

Values assigned to surfaces and textures can now be between -399 and +400 per cent; camera field of view is now represented graphically in the layout screen; motion graphs have been improved; Bones have been given a great deal more flexibility, the list goes on. As most, if not all, changes have been made through prompting from professional users, they add increased flexibility and performance to many aspects of LightWave 3.1.

Modelling from scratch has never been easy with any 3D package, but LightWave 3.2 makes it easier to create smooth, realistic objects from crude, faceted blocks through the metaform option. This is a new method of subdividing existing polygons and is much more effective than the old smooth option. In the screenshots shown here an effective car model is quickly constructed from a very rough frame using metaformed polygons.

The Bones feature is another which was never as good as it could have been, and a couple of important changes have addressed its shortfalls. When adding a Bone to an existing hierarchy it is no longer necessary to scale, position and group the new bone – tedious task at the best of times. LightWav now takes care of this automatically, makin it a lot easier to construct complex skeletons

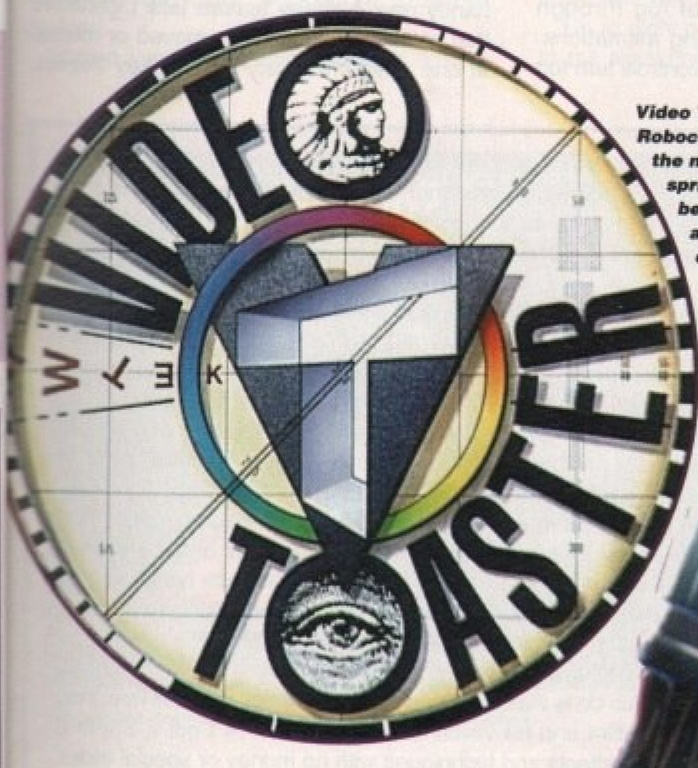
Once built, these skeletons are now mac more flexible through the introduction of limited range option. Using this it is possib to set exactly which areas of an object ca



From cars to Robocop to planets and skeletons – the package is now even more versatile

wave

With the PAL standalone version of LightWave 3D finally hitting our shores, Stevie Kennedy looks at the biggest Amiga 3D event in years and the latest wave of TV magic to cross the Atlantic





Video Toaster and Robocop – just one of the many partnerships springing up between the Amiga and production companies

be affected by any one bone. Whereas before the range of influence of a bone was infinite, now each can be told to restrict itself to a particular limb or area of the object, giving the animator much more control over objects with skeletons.

Lights and their associated lens flares have also seen a couple of changes. Best of these is the automatic fading of a lens flare with distance, which removes the need to use an envelope to give the impression of a light fading as it travels away from the camera. Nominal distance (where the light is at its normal intensity) can be set, and LightWave will then increase or decrease the lens flare effect as the light moves relative to the camera.

GLOW

In addition, there's a new setting to enable lights to glow behind other objects. This glow or halo around a light isn't the same thing as a lens flare, which only occurs when a light is in front of the camera and unobstructed by other objects, and will add another touch of realism to those images in which it is used.

It is in the camera menu, however, that European users will find what they have been looking for. The old preset NTSC resolutions are still available on a pop-up menu, but the Custom Size button enables the user to set any desired height and width for the finished

image. Sizes range from 16 to 16,000 pixels, so there should be a resolution in there to suit everyone, and PAL video settings (736 by 566 on maximum overscan) have jumped off the wish list and onto the screen.

To improve preview rendering times, there's a new limited region feature so that only a small part of a scene need be rendered. This is very useful if one surface out of twenty or so has been altered and the user doesn't want to render every other object in the scene just to see how the changes affect the outcome.

Pixel aspect ratios are fully configurable so that images rendered for print – rather than video – can use completely square pixels, and to speed up some animations the motion blur and depth of field effects will now work only with low anti-aliasing rather than 3.1's insistence on the slower medium or high settings.

Effects haven't missed out on the fun either. Non-linear fog, one of the best tools for adding a touch of realism to a scene, is now much more configurable. Instead of a simple minimum and maximum fog distance, the user can now change fog density using an envelope so that it can be made to thin out during an animation, and the maximum amount of fog blending – previously set at 100 per cent so that objects eventually disappeared altogether at distance – can be set to any desired amount.

Proper use of the new fog features make it possible to create clouds of fog through which an object can fly during animations. With a little practice, the new controls turn fog into more of an animated design object t just the background aid it once was, an further enhance its use there's a graph representation of the fog settings show how the effect works across the scene.

On the layout screen's options pane handy new AutoKey feature tells LightW that whenever an object is moved or rot at one of its previously created key fran

> Speed freaks with deep pocke will no doubt welcome the all-n ScreamerNet menu, a new set of options enable LightWave to use faster add-on processors.

The story teller



Lee and his team took real life scenes and used LightWave models over them. The Jeep, laserbolt and explosion are all from LightWave

Visual effects supervisor Lee Wilson is the man behind the light fantastic on SkyVision's RoboCop series, and it was his long term interest in the Amiga and Video Toaster which resulted in the show's use of LightWave imagery for much of the 3D scenes we will see when the series opens in the UK.

It was an introduction made by Lee and destined to become very productive. Initial use of LightWave on the two-hour pilot movie was restricted to a shot of RoboCop's helicopter flying over the city, but by the later episodes Amiga-generated graphics had become a major part of the production.

By the time SkyVision shot the "Heartbreakers" episode half way through the series, LightWave was being used to put together over 20 shots per show, including a continuous 3 1/2 minute scene from inside RoboCop's cyberspace "neuro-net". "We get a lot of bang for the buck out of this department," explained Lee.

It is a department many Amiga enthusiasts would kill for, equipped with 14 Toasters, one of which runs the seventh Raptor accelerator to come off the production line. This new card utilises two R4400 Risc chips as found inside Silicon Graphics machines to give the Amiga a rendering speed to match the best available anywhere else.

"A frame which would have taken seven hours to produce would take only ten minutes with the Raptor," claimed Lee. "It's like having forty toasters in a box, and we can buy ten Raptors (at about $14,000 a piece) for the cost of one big SGI machine."

Lee is no stranger to the use of top level effects in TV and movie productions. His first use of LightWave for TV came in the Maniac Mansion show, but European readers will know him best for his work with award-winning directo David Cronenberg. From being co-designer of computer effects on the cu movie Videodrome, he moved on to supervise effects on The Fly and mos recently was in charge of the more subtle, less visible trickery employed in Dea Ringers.

However, though his background is in optical effects, Lee insists that the stor is everything. Despite the use of LightWave plus the Toaster's paint and charac ter-generation software, and even the employment of Dpaint and Brilliance fo backdrops, he has a healthy disregard for effects which hog the limelight.

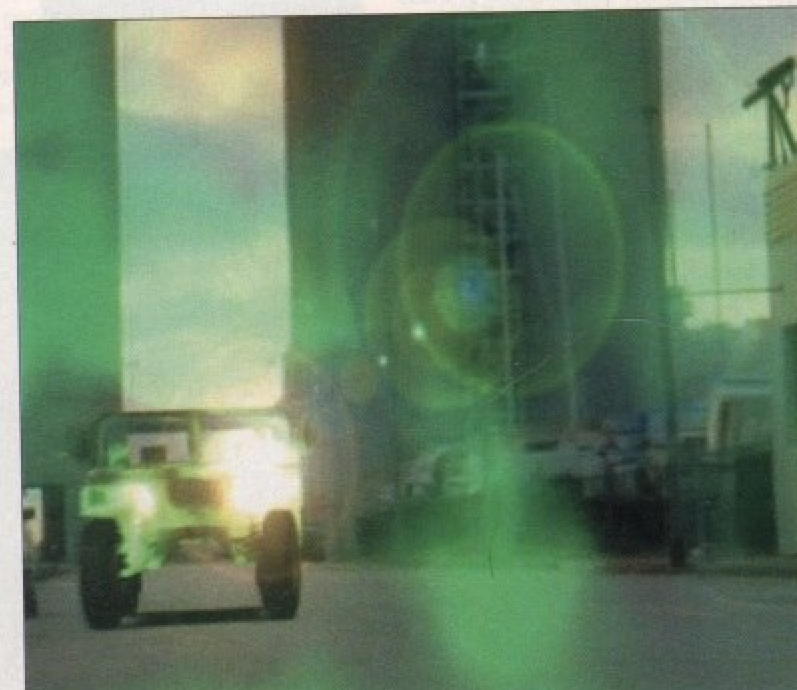
"I don't want to watch a show where the story halts while you look at a coup of minutes of effects just for the sake of it. In Dead Ringers we used a lot effects which you never even notice. It's not the effects, it's the story.

"The value of the work is in the animator or artist and you see some pretty ba stuff when this is forgotten. One of the most common mistakes and the easie thing to fix is bad use of lights and textures which people use just because the can. This breaks the realism, and the only way to get good results is to use re world measurements and real world images as much as possible."

So what advice does he have for aspiring animators?

"The best thing you can do is watch TV and movies and ask yourself how th did that. I grew up with film and television and when I was 14 I got a Super camera and tried out the effects and techniques with no money or special trick Just look and see what's out there and really pay attention.

"You can use a 35mm camera to take pictures of a city street, have them p on Photo-CD in high quality resolution, then drive your 3D car down a real stre You have to take measurements and think about camera pitch, angle, the re tive scale of objects and if you work with real images and real dimensions eve thing will look a lot more realistic. If you've got the passion for it there's rea nothing to stop you."



The user needn't hit the Create Key button. Automatic creation of new key frame settings removes the frustrating practice of continually hitting Create Key and also the risk of forgetting, which results in the loss of all edits when you move to another frame.

When finally rendering an image, the record menu shows the first use of LightWave's modular design. A render display pop-up menu offers the user the choice of Toaster framestore or Picasso II display cards for viewing the frame in full 24-bit colour as it renders. European users of cards such as OpalVision, Retina, EGS Spectrum, or Harlequin surely haven't long to wait before third party modules make it possible to render direct from LightWave to these devices.

Speed freaks with deep pockets will no doubt welcome the all-new ScreamerNet menu, a new set of options to enable LightWave to use faster add-on processors. Primarily designed to use the R4400 processors of the Screamer and Raptor cards running on a Windows NT network, this menu will be the first pressed into use by professional animators.

PROCESSORS

ScreamerNet software is sold separately with the Raptor card and is used across an ethernet LAN to enable LightWave to make use of remote processors offering many more millions of instructions per second (Mips) than the Amiga's fastest CPU, the 68040, could ever manage.

Up to eight processors can be called upon to cut rendering times to a small fraction of the original and boost LightWave's performance on an Amiga up to and above that of SoftImage, Wavefront, and Alias packages running on a Silicon Graphics machine. With this sort of performance and such a price tag, LightWave only needs to break down the computer snobbery barrier to make the same impact here as it has in the States.

This has been a quick rundown of the most important new features found in LightWave 3.2, but there are so many improvements that it hasn't been possible to carry out our usual in-depth evaluation, particularly of a package which arrived just before we went to print. Once we've managed to drag Mr Austin away from the program long enough to draw breath, have a meal and a bath, we'll bring you an update of how the new features shape up to intense use.

Why LightWave?



LightWave shows off its marvellous texture control

Amiga Computing resisted the temptation to drool over LightWave for a long time because until last year there was no viable way of using the package on this side of the Atlantic. Buying the NTSC-only Video Toaster just to use LightWave was akin to paying $2000 just for the hardware dongle, but when the third party LightRave dongle appeared and put the first cracks in LightWave's NTSC armour, we knew it was only a matter of time before NewTek got the PAL message.

We rave about this package because anyone who has seen it in action, enjoyed the delights of using it to create animations, or seen the output of which it is capable, can fully understand why it has been one of the Amiga's biggest selling points in the US for the past few years. Put simply, the only way to better LightWave as an animation tool for TV, film, or video is to spend tens of thousands of pounds on a Silicon Graphics machine and another £10,000 or so on the accompanying software.

No desktop software on any other machine, whether Mac or PC, can hold a candle to LightWave, and when compared to Autodesk's powerful 3D Studio software – £2500 worth of excellent software hampered by a typically Windows-dominated front end – the Amiga's £600 package comes up smelling of roses. So there.

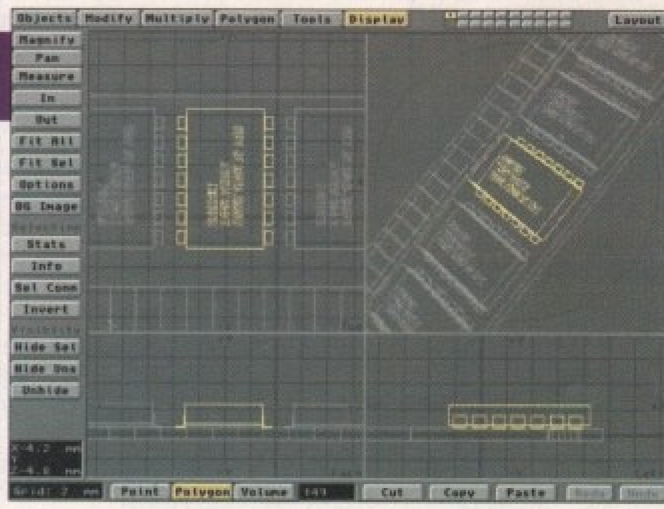
What is LightWave?

If you haven't yet figured out what all the fuss is about, mention of this wonderful LightWave program might be leaving you cold, so a little explanation is in order.

Originally released as one element in a package of programs designed to work with NewTek's Video Toaster "TV studio on a board", LightWave quickly grew into something of a legend. It is a 3D modelling and rendering package split into two main sections: the modeller and the layout screens.

In the modeller, a range of advanced tools including taper, shear, bend and so on can be used to create 3D objects in stunning detail. It is here that certain parts of the object are assigned "surfaces", the life blood of any LightWave object.

From the modeller the raw object, complete with named but blank surfaces, is passed to the layout section where surfaces can be edited to the heart's content. Luminosity (brightness), colour, bitmap textures, lens flares, procedural textures (such as bump maps), and all the other paraphernalia of the 3D world are added in layout,



First build your model and assign surfaces...



...then add lights, camera and action

animations are created and the final image produced. The reason LightWave is a "must have" is the extreme ease with which animations can quickly be built up and previewed in real time using a system so elegant and easy to use that making an aircraft go through a complex sequence of aerobatic maneouvres, something at which one would baulk using other packages, is a complete doddle. Coupled with the program's excellent photorealistic output and speed of rendering, this ease of animation puts LightWave ahead of any package in its price range, and many beyond it.

For years, LightWave has run only on machines equipped with the Video Toaster, a combination of chroma-keyer, switcher, and video mixer which, though superb, has never appeared in a PAL-compatible form. Years of staring at US images and animations with green eyes and a grim smile are about to end with the release of LightWave 3.2, so if you haven't got the message yet, don't worry – you soon will.

DEAL DIRECT: TEL 0533 711911

9.30-5PM MON-FRI | **RETAIL CUSTOMERS**

CALL AT SHOPS IN LEICESTER
BITS & BYTES
5 ST PETERS LANE,
LEICESTER LE1 4GH
TEL: 0533 513372 10-4PM

FUTURE COMPUTING
62C LONDON RD, OADBY,
LEICESTER LE2 0PF
TEL: 0533 513372

SHOPS OPEN
MINIMUM
TUES-SAT 9.30-4.30PM

PRICE PROMISE
WE WILL TRY TO BEAT ANY GENUINE PRICE ADVERTISED. PLEASE CALL FOR QUOTE!!

ECOLOGICAL
ECO FILL
RE-THINK

ECO-FILL BULK
THIS KIT INCLUDES A BULK RE-USABLE ECO-FILL REFILL KIT & BULK INKS TO FILL MOST CARTRIDGES AS LISTED BELOW
4 REFILLS £11
8 REFILLS £16
16 REFILLS £29

HOW MANY REFILLS: A SIX-FILL = 6, QUAD=4, TWIN=2

HEWLETT PACKARD/CANON/ETC INKJET CARTRIDGES

H.P. Standard - 51608A	£16
H.P. High Capacity	£23
H.P. Colour 500C etc.	£27
Canon BC-01/BJ 10E	£17
MANY MORE TO ORDER	POA

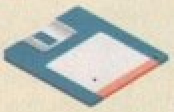
WHY PAY MORE?

RECYCLE ORIGINAL CARTRIDGES
WITH OUR INKJET & BUBBLEJET RE-USABLE ECO-FILL REFILL KITS

Black only Single Refill for Mono Printers	£6.00
Black or Colour Twin-Fill for Mono Printers	£9.50
Tri-Colour ECO SIX-FILL for Colour Printers	£16.00
Black or Colour Quad-Fill Ink for ECO-FILL	£12.00
ECO-FLUSH for Blocked Jets & Colour change	£5.00

ECO-FILL MEGA
A MEGA KIT - 1 LITRE CAN DO UP TO 66 REFILLS FOR £49
THIS KIT WILL REFILL A STANDARD 66 TIMES & A HIGH CAPACITY 33 TIMES

3.5" DISKS LIFETIME WARRANTY



DSDD - 1MEG	20	50	100	500
3.5" Grade 1	£9	£17	£30	£133
3.5" Grade 2	£7	£16	£26	£120
3.5" Covers	£7	£13	£21	£85
3.5" Branded	£10	£23	£41	£187
3.5" Transparent & Branded Green/Blue	£10	£23	£41	£187

PLEASE RING FOR SPECIAL DISK DEAL ON DAY
ALL DISKS CARRY A 1 FOR 1 WARRANTY



HIGH DENSITY	20	50	100	500
3.5" Grade 1	£14	£29	£49	£199
3.5" Grade 2	£11	£22	£40	£170
3.5" Covers	£11	£17	£30	£135
3.5" Branded	£16	£36	£66	£288

3.5" DISK LABELS	10	50	100	1000
Single Colour	50p	£1.50	£2.00	£6.50
Rainbow	60p	£1.70	£2.30	£8.50
Tractor Fed	60p	£1.70	£2.30	£8.50

PRINTER RIBBONS
WE SELL FULLMARK BRANDED, PROBABLY THE BEST RIBBON AVAILABLE. PLEASE CALL FOR A QUOTE

DUST COVERS

Amiga 500	£3.00
Amiga 600	£3.00
Amiga 1200	£3.00
Printers from	£3.00
Colour Monitor	£3.50
PC Covers from	£3.00

DISK BOXES

3.5" 2 Box	50p
3.5" 5 Box	70p
3.5" 12 Box	£1.00
LOCKABLE BOXES	
3.5" 50 Box	£3.00
3.5" 100 Box	£4.00
3.5" 120 Box	£5.00
3.5" 150 Box	£7.00
STACKABLE BOXES	
3.5" 100 File	£8.00
3.5" 150 Posso	£16.00
3.5" 200 File	£10.00

JOYSTICKS - MICROSWITCH

Cruiser Multi - 3 Way Control	£10.00
Cruiser Turbo - Auto	£11.00
Zipstick Super Pro	£9.00
Zipstick Super Pro - Triple Fire	£10.00
Competition Pro 5000	£11.00
Competition Pro Extra Clear	£12.00
More Joysticks - To Order	POA

All joysticks carry a full 12 month guarantee

SCANNERS FOR AMIGA



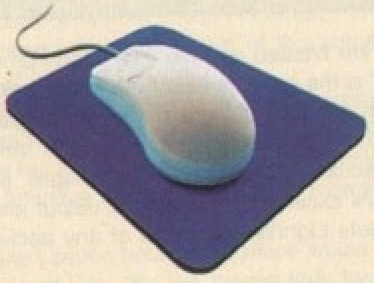
Amiga 256K - No OCR Software	£99.00
Amiga 256K Greyscale - 800 DPI "Amiga Gold Award 90%" 1st	£115.00
Amiga Colour Scanner - 18 bit Amiga Format 85% Best Colour	£225.00

2 year guarantee

LEADS AND ACCESSORIES

Mouse Mat 6mm	£1.40
Mouse Mat 11mm	£3.00
Parallel Printer Cables	£4.00
Typists Wrist Rest	£2.50
Printer Stands	£3.50
3.5" Cleaning Kit	£2.00
3.5"/5.25" Maintenance Kit, 7 Piece with Vacuum + Cleaning Bits, etc.	£8.00
Mesh Screen Filter - Colour U.V. infra red reduction	£5.00
Glass Screen Filter - Colour optical + radiation	£13.0
Amiga/Atari Twin Extension Lead - Mouse/Joystick	£4.00
Amiga/Atari/Sega 2 Metre Joystick Extension Lead	£4.00

MICE - TRACKBALLS - ETC



Amiga 200 DPI Mouse	£7.00
Amiga/CD32 260 DPI	£11.00
Amiga/ST M/S 400 DPI "93% Amiga User"	£13.00
Amiga Optical Mouse	£29.00
Amiga Trackball 320 DPI	£22.00
Amiga/ST Trackball "92% Gold Award Winner"	£27.00
Amiga Optical Pen	£35.00
PC Mice + Lemmings S/W	£11.00
Mouse/Joystick Switcher	£9.00
Amiga Power Supply	£39.00
Amiga Disk Drive	£48.50
Amiga 0.5 Meg Upgrade	£16.00
Amiga Upgrades:	PHONE FOR PRICE

All hardware carries a minimum 12 month guarantee

DELIVERY	UNDER £20	OVER £20
NORMAL	ADD £3	FREE
NEXT DAY	ADD £6	ADD £3

ALL PRICES INCLUDE VAT. PRODUCTS CARRY 1 OR 2 YEAR WARRANTY. GOODS SUBJECT TO AVAILABILITY. E&OE

Please allow 2-28 days for standard delivery, but to speed it up please write address & cheque guarantee no. on cheque. Please make cheques payable to "DEAL DIRECT LTD" and post to:

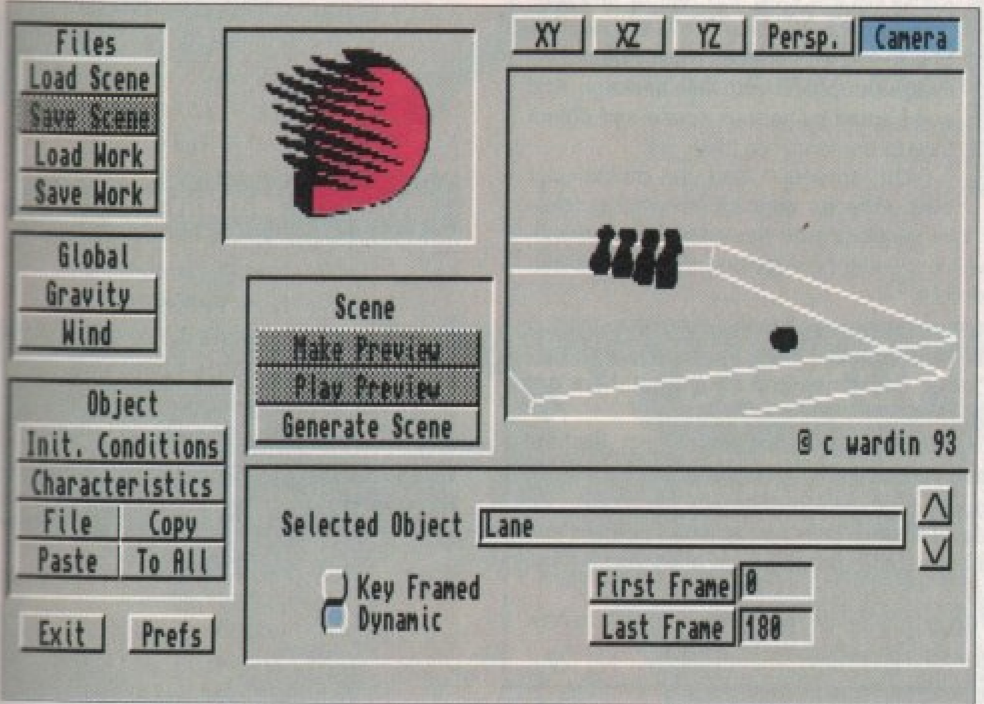
DEAL DIRECT LTD
DEPT. AMC9, Unit 20, MANDERVELL ROAD, OADBY INDUSTRIAL ESTATE, OADBY, LEICESTER LE2 5LQ, ENGLAND

PAYMENT METHODS

ACCESS-VISA-CHEQUE-POSTAL ORDER - ANY OTHER METHOD OF CLEARED FUNDS SUCH AS BANK TRANSFER - T.T. - LETTER OF CREDIT - ETC

Peripheral parade

The cottage industry which has built up around LightWave in the US has seen every kind of add-on under the sun, from disks full of objects and textures to programs designed to augment the package or provide features not found in the original. The LightWave invasion is bound to be accompanied by many of these excellent and inexpensive add-ons, so we've taken the trouble to ship a few over for your perusal.



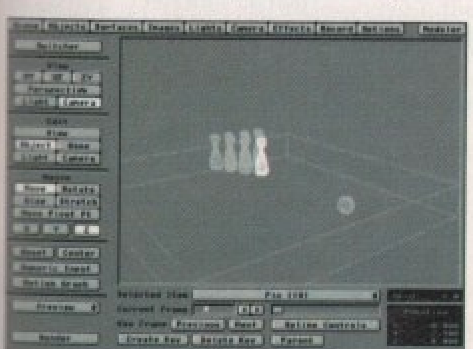
Set the scene in DMM and make use of gravity or wind...

Dynamic Motion Module

Of all the modern 3D features found in LightWave, one is conspicuous by its absence: dynamics. This is the name given to a program's ability to take real world attributes and forces such as mass, gravity, wind and elasticity into account when rendering a scene. The Silicon Graphics machines can do it, and so can Real 3D v2, so why not LightWave?

Positron Publishing decided that it was high time they added such features to LightWave, and the result is their Dynamic Motion Module. Installing to the same directory as LightWave, DMM is designed as an aid to layout: first load a scene created in LightWave then add the magic ingredient. Each otherwise ordinary object in the scene can be assigned a mass, initial velocity, and elasticity, and can be set to be affected by wind and gravity.

The DMM user is then able to roll a bowling ball at a collection of skittles and have them career and bump around as they would in real life without every motion having to be set manually. DMM takes care of collisions, bounces, gravity and so on to produce a very believable real world reaction to the effects of other objects and global forces like wind and gravity.



...then load the scene into LightWave for rendering. Simple

When the scene is completed to the user's satisfaction it can be saved out again as a standard LightWave scene for later use in the layout section. The resulting scene appears much more lifelike thanks to the invisible hands of those real-world forces we experience every day of our lives but take for granted.

Simulating the action of a cue ball hitting a triangle of reds on a snooker table would take an age using keyframe animation, but with DMM it is easy. Just set the mass and elasticity of the balls (you can do this once and copy the attributes to the other balls), and the initial velocity of the cue ball, then sit back while DMM does all the work.

The program's only real limit is that collisions are only detected where a point collides with a polygon which often means that objects have to be given extra points in the area of the expected collision, but this is a small price to pay for DMM's performance. Again, previews can be very slow to generate, as can the final scene data from the in-progress work file, but the results are worth the wait.

As angular velocity (rotation), drag factor and elasticity can be set for each object at the beginning of a scene, it should theoretically be possible to set up any kind of real-world collision you like before saving the scene to LightWave. Any serious animator will want to get his or her hands on this software as soon as possible.

Wave Writer

Despite LightWave's excellent use of PostScript Type 1 fonts to produce smooth spline-based, rendered text, the use of fonts in the program is a little limited. In response to this, DBA Unli Graphics have produced Wave Writer, a program dedicated to the sole task of producing three dimensional text for use in LightWave scenes.

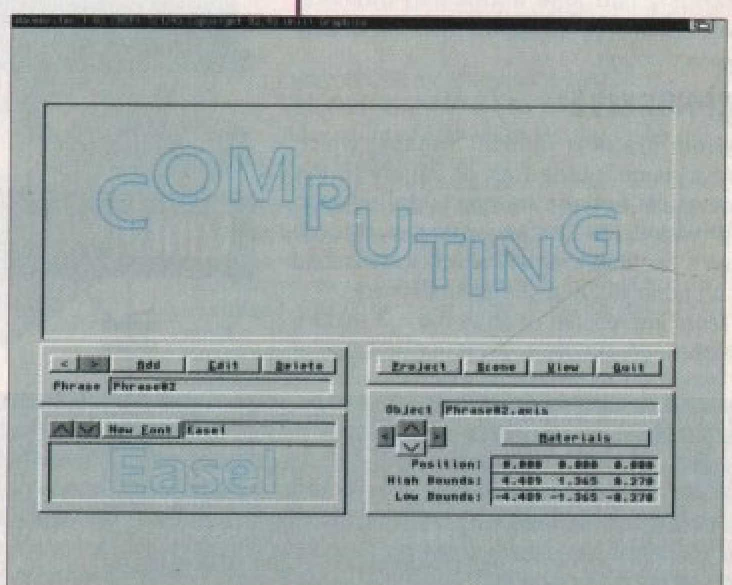
The program has an easy-to-use interface and a simple approach to its task, but there are plenty of options lurking below the surface. Users can add text by default as the usual horizontal lines, but they can also fit the text to an arc of a user-defined degree, pin text to a sine wave, write it vertically, rotate the letters at varying angles, and all this in any one or more of the three axes.

Carrying out this sort of operation in LightWave would of course be possible, but much more time consuming. Wave Writer takes the time and the tedium out of the process, and is therefore ideal for those who create a lot of flying logo-style anims.

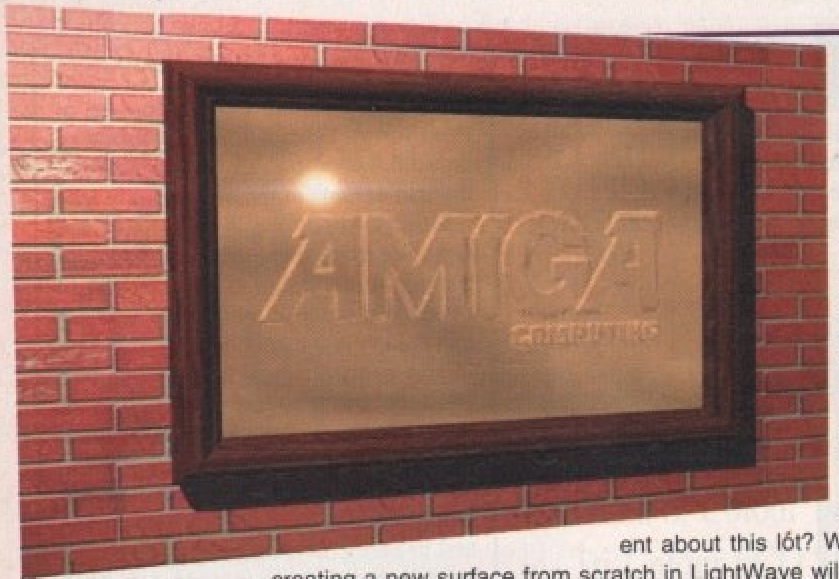
In addition to creating the text objects, Wave Writer can be use to add bevel effects and set the basic attributes of the various surfaces on each letter, so by the time a piece of text is loaded into LightWave it can be ready to use straight off the bat.

Fairly close control is offered over scene settings such as the number of lights used, their type, position, colour and intensity, and the same with backdrop colour. When saving from Wave Writer, the user saves all these settings in a scene file which can be loaded for instant rendering in LightWave.

Wave Writer is a fairly specialised package and perhaps not for all LightWave users, but those who make extensive use of text, whether for corporate logo or general animation work, would be well advised to give it a whirl.



Creating complex text phrases and effects is easy with Wave Writer



Surface Pro's bricks and wood textures put to good use

Surface Pro

This is one of those packages which, like Essence for Imagine users, can transform the look and feel of any rendered image. Surface Pro is a collection of pre-defined surfaces mostly based on images supplied with the package and augmented by various scene, and object files to demonstrate their use.

OK, so what? You can create your own surfaces after all, so what's different about this lot? Well, anyone who has experimented with creating a new surface from scratch in LightWave will know just how tedious the process can be and how much time and effort is required to get something looking just right.

Surface Pro takes all the work out of this by offering 60 surfaces, all high quality, and all using seamless images so that when tiled the edges don't show. To use them you just load them up and slap them on an object. Particularly impressive are the work-a-day surfaces such as wood and brick, flagstones and so on, but there are also enough spaceship textures to keep Trek fans happy.

Apart from a bit of editing here and there to set scale and orientation to the proper levels for each object, Surface Pro surfaces work well and they work instantly. However, they can be even more useful with just a bit of messing around.

As most surfaces use seamless images to create their effects, the use of texture velocity settings can give animated fire or water without daft gaps appearing, and mixing some of the high quality image maps supplied with the package can have interesting results.

Whether used as a bank of stock surfaces or as the starting point for experimentation, Surface Pro can add new life to animators' work.

Shareware bonanza

Where do I start? The existence of a vibrant LightWave community in the USA also ensures the existence of a huge base of freeware and shareware objects, images, surfaces, scenes and just about everything else the new LightWave owner could want, much of it available through bulletin boards or shareware libraries.

One collection which stands out for closer examination is that put together by Thomas Dawson and currently doing the BBS rounds under the name TDTXTR.lha. This compilation of four reflection maps, two bump maps, and 19 surfaces has obviously had time and loving attention lavished on it by its creator and the quality shines through.



Tom Dawson's flame, organic armour and marble surfaces in action

IMPRESSIVE

From the new reflection maps, which add a much needed air of variety to the fractal reflections image supplied with LightWave, to the complete surfaces, Tom's textures are well worth a download or a phone call to a shareware library.

Most impressive of all is the fire texture which uses simple techniques not unlike those employed in Surface Pro to create a believable flame effect. A fair amount of editing is required to get the most from some of the surfaces, but they are inventive enough to provide food for new ideas as well as being ready for instant use.

Conclusion

Commodore's future shape may still be in flux, but one thing is certain: NewTek are going from strength to strength. With the opening of another huge market in the form of Britain and Europe, LightWave is sure to confirm its place as the premier desktop rendering and animation system.

PC snobs can waffle all they like about the charms of the over-priced, over-dinky 3D Studio, but for functionality, ease of use, features and price point LightWave simply has no match. RoboCop, Star Trek TNG The Movie, Star Trek VI, SeaQuest DSV, and Babylon 5 are just the beginning, and as the ultra expensive world of videography and special effects wakes up to the potential of a LightWave system used either as a modeller or as a rendering system with the Raptor card, you can expect to see Amiga outfits vie with the mighty Industrial Light and Magic for a slice of the big screen pie.

Contacts

LightWave 3D:

NewTek Inc
1200 SW Executive Drive
Topeka
KS 66615
Tel: (0101) 913 271 3000
Fax: (0101) 913 271 3001

Dynamic Motion Module:

Positron Publishing
1915 N.121st Street, Ste. D
Omaha
NE 68154
Tel: (0101) 402 493 6280
Fax: (0101) 402 493 6254

Wave Writer:

Unili Graphics
143 Lorraine Avenue
Pittsburg
CA 94565
Tel: (0101) 510 439 1580

Skyvision:

Robocop Productions Limited
Partnership
49 Ontario Street
3rd Floor
Toronto
Ontario
Canada
M5A 2V1
Tel: (0101) 416 364 4388

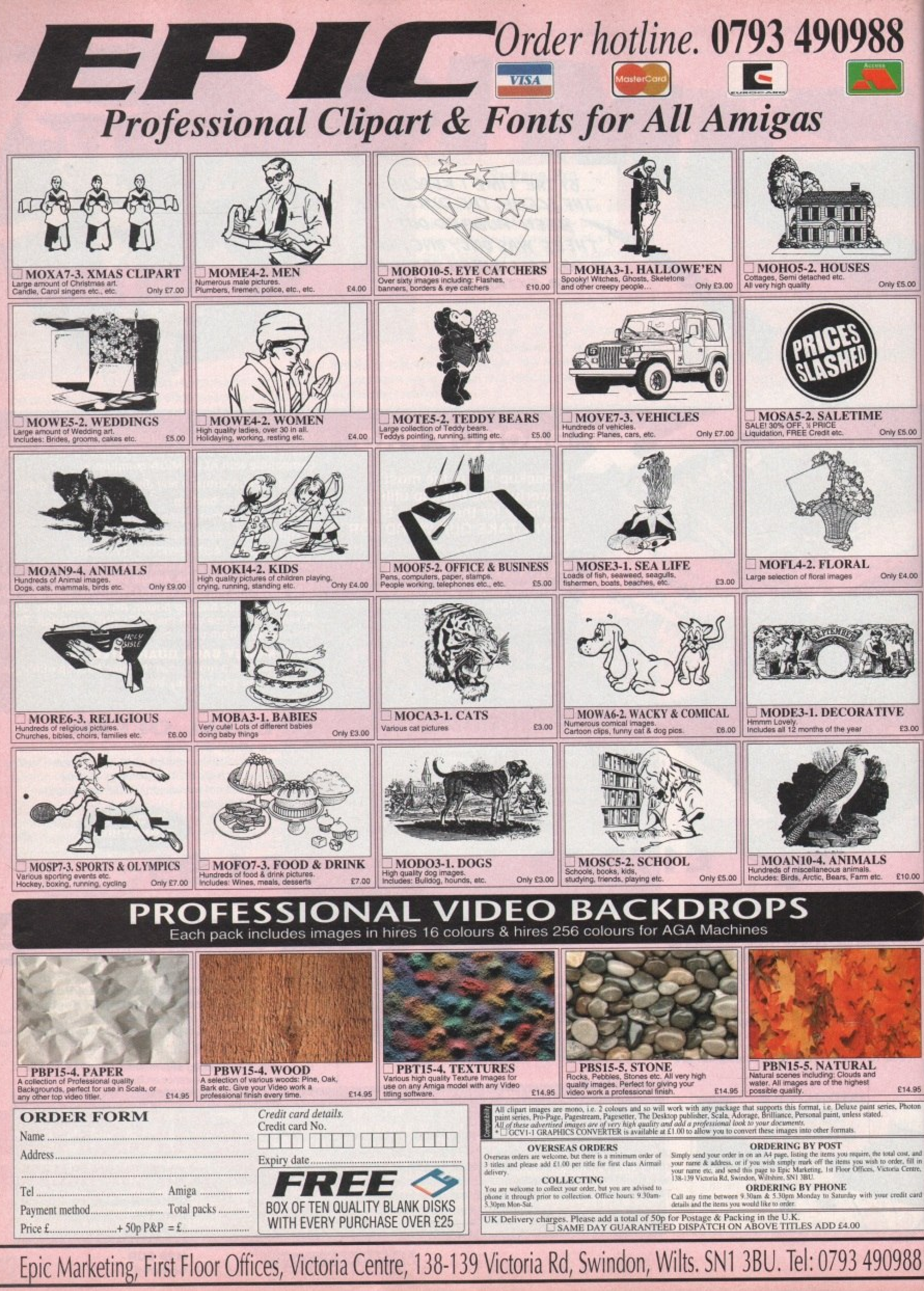
Surface Pro:

Visual Inspirations
809 West Hollywood
Tampa
FLA 33604
Tel: (0101) 813 935 6410

Tom's Textures:

Thomas Dawson
1268-B Auto Park Way
Suite 508
Escondido
CA 92029


THE MICRO ADVENTURES OF...
SAM IGA
"...BY THE TIME I REACHED THE SCENE, THE DISCS HAD BEEN 'RUBBED OUT'... THERE WAS ONLY ONE THING TO DO. CALL 'SIREN SOFTWARE' FOR EXTRA BACKUP!"
TELEPHONE
061-724 7572
FAX 061-724 4893
X BACKUP PRO
X-Backup Pro is the most powerful disc backup utility available for the Amiga, BUT DON'T TAKE OUR WORD FOR IT... CU Amiga Magazine, July 1993
"IT'S UNBEATABLE."
'a veritable bargain at just £39.99' Amiga Computing, September 1993
'fast, flexible and reliable' Amiga Computing, September 1993
£39.99
+ £1 postage & packing
THIS PRODUCT MUST NOT BE USED TO INFRINGE COPYRIGHT.
INCLUDES THE NEW 'CYCLONE' CARTRIDGE FOR BACKING UP PROTECTED SOFTWARE
USES LATEST CUSTOM CHIP DESIGN
Unlike other disc backup utilities, X-BACKUP PRO is totally automatic and extremely simple to use. It is fully compatible with ALL AMIGA computers.
• Will backup virtually any disc onto another disc.
• Full hard disc backup.
• File management facility.
• Optimise, formats, repairs, verifies.
• Includes the 'AUTOSWITCH' CYCLONE cartridge. Simply plugs into the external disc drive socket at the rear of the Amiga, and plug your external disc drive into the back of the CYCLONE cartridge for unbeatable disc backup power. An external disc drive is required for use with the CYCLONE cartridge. These are available from us priced £54.99.
FULL MONEY BACK GUARANTEE.
If you can find a more powerful disc backup utility, we will give you your money back.
A1200 1200 4mb memory expansion with clock
New state of the art design.
32 bit wide auto configuring Fastram.
Zero wait state allows the A1200 to run at full speed.
Increase the speed of the computer by 219%
Battery backed clock keeps the correct time and date even when the A1200 is switched off. Simple trapdoor installation.
£179.99
85%
SPECIAL OFFER
Deluxe disc drives
Whisper quiet. Slimline design. Suits any Amiga. Cooling vents. Sleek, high quality metal casing. Quality Sony/Citizen drive mechanism. On/Off switch and throughport at the rear of the drive. Full 880K capacity. Long reach connection cable.
CYCLONE COMPATIBLE
£54.99
HARD DISC DRIVES
30mb only £109.99 120mb only £189.99
40mb only £119.99 170mb only £224.99
60mb only £129.99 258mb only £264.99
85mb only £149.99 344mb only £299.99
Add £289.99 for A1200 fitted with above drives.
Our 2.5" hard drives for the Amiga A1200/A600 offer speedy access times and come complete with fitting cable, screws and full instructions. They are pre-formatted and have workbench already installed for immediate use. Fully guaranteed for 12 months.
Free fitting service to personal callers
SUPERB VALUE FOR MONEY
Order NOW for immediate despatch
Tel. 061 724 7572 Fax 061 724 4893
Telesales open 9am – 6pm Monday-Friday
Access/Visa accepted
Send a cheque/Postal order or credit card details to:-
Siren Software, Wilton House, Bury Rd, Radcliffe, Manchester M26 9UR England
Government, Education and PLC orders welcome.
All prices include VAT at the current rate. Postage and packing will be charged at £3.50 per order (U.K.), £7.50 Europe, £12.50 rest of world.
Please note that 5 working days must be allowed for cheque clearance. Immediate clearance on Building society cheque or Bank Draft.
Soundblaster
The SOUNDBLASTER is a 10 watt stereo amplifier that comes complete with high quality 3 way speakers, power supply and FREE STEREO HEADPHONES!
The SOUNDBLASTER adds a new dimension to games playing, imagine stunning stereo sound effects, crystal clear samples and terrific stereo tunes. The SOUNDBLASTER also boosts games playability!
The speakers are powerful 50 watt 3 way units featuring a 3" woofer, 2" honker and a 1" tweeter to provide a powerful crisp sound.
IMPROVED SOUND QUALITY
£44.99
SoundBlaster
SIREN SOFTWARE
Wilton House, Bury Rd, Radcliffe, Manchester M26 9UR England
WE'VE GOT WHAT YOU NEED


EPIC
Order hotline. 0793 490988
VISA
MasterCard
Access
Professional Clipart & Fonts for All Amigas
MOXA7-3. XMAS CLIPART
Large amount of Christmas art. Candle, Carol singers etc., etc. Only £7.00
MOME4-2. MEN
Numerous male pictures. Plumbers, firemen, police, etc., etc. £4.00
MOBO10-5. EYE CATCHERS
Over sixty images including: Flashes, banners, borders & eye catchers £10.00
MOHA3-1. HALLOWE'EN
Spooky! Witches, Ghosts, Skeletons and other creepy people... Only £3.00
MOHO5-2. HOUSES
Cottages, Semi detached etc. All very high quality Only £5.00
MOWE5-2. WEDDINGS
Large amount of Wedding art. Includes: Brides, grooms, cakes etc. £5.00
MOWE4-2. WOMEN
High quality ladies, over 30 in all. Holidaying, working, resting etc. £4.00
MOTE5-2. TEDDY BEARS
Large collection of Teddy bears. Teddys pointing, running, sitting etc. £5.00
MOVE7-3. VEHICLES
Hundreds of vehicles. Including: Planes, cars, etc. Only £7.00
PRICES SLASHED
MOSA5-2. SALETIME
SALE! 30% OFF, ½ PRICE Liquidation, FREE Credit etc. Only £5.00
MOAN9-4. ANIMALS
Hundreds of Animal images. Dogs, cats, mammals, birds etc. Only £9.00
MOKI4-2. KIDS
High quality pictures of children playing, crying, running, standing etc. Only £4.00
MOOF5-2. OFFICE & BUSINESS
Pens, computers, paper, stamps. People working, telephones etc., etc. £5.00
MOSE3-1. SEA LIFE
Loads of fish, seaweed, seagulls, fishermen, boats, beaches, etc. £3.00
MOFL4-2. FLORAL
Large selection of floral images Only £4.00
HOLY BIBLE
MORE6-3. RELIGIOUS
Hundreds of religious pictures. Churches, bibles, choirs, families etc. £6.00
MOBA3-1. BABIES
Very cute! Lots of different babies doing baby things Only £3.00
MOCA3-1. CATS
Various cat pictures £3.00
MOWA6-2. WACKY & COMICAL
Numerous comical images. Cartoon clips, funny cat & dog pics. £6.00
SEPTEMBER
MODE3-1. DECORATIVE
Hmmm Lovely. Includes all 12 months of the year £3.00
MOSP7-3. SPORTS & OLYMPICS
Various sporting events etc. Hockey, boxing, running, cycling Only £7.00
MOFO7-3. FOOD & DRINK
Hundreds of food & drink pictures. Includes: Wines, meals, desserts £7.00
MODO3-1. DOGS
High quality dog images. Includes: Bulldog, hounds, etc. Only £3.00
MOSC5-2. SCHOOL
Schools, books, kids, studying, friends, playing etc. Only £5.00
MOAN10-4. ANIMALS
Hundreds of miscellaneous animals. Includes: Birds, Arctic, Bears, Farm etc. £10.00
PROFESSIONAL VIDEO BACKDROPS
Each pack includes images in hires 16 colours & hires 256 colours for AGA Machines
PBP15-4. PAPER
A collection of Professional quality Backgrounds, perfect for use in Scala, or any other top video titler. £14.95
PBW15-4. WOOD
A selection of various woods: Pine, Oak, Bark etc. Give your Video work a professional finish every time. £14.95
PBT15-4. TEXTURES
Various high quality Texture Images for use on any Amiga model with any Video titling software. £14.95
PBS15-5. STONE
Rocks, Pebbles, Stones etc. All very high quality images. Perfect for giving your video work a professional finish. £14.95
PBN15-5. NATURAL
Natural scenes including: Clouds and water. All images are of the highest possible quality. £14.95
ORDER FORM
Name
Address
Tel
Amiga
Payment method
Total packs
Price £ + 50p P&P = £
Credit card details.
Credit card No.
Expiry date
FREE
BOX OF TEN QUALITY BLANK DISKS WITH EVERY PURCHASE OVER £25
Compatibility
All clipart images are mono, i.e. 2 colours and so will work with any package that supports this format, i.e. Deluxe paint series, Photon paint series, Pro-Page, Pagestream, Pagesetter, The Desktop publisher, Scala, Adorage, Brilliance, Personal paint, unless stated.
All of these advertised images are of very high quality and add a professional look to your documents.
* GCV1-1 GRAPHICS CONVERTER is available at £1.00 to allow you to convert these images into other formats.
OVERSEAS ORDERS
Overseas orders are welcome, but there is a minimum order of 3 titles and please add £1.00 per title for first class Airmail delivery.
COLLECTING
You are welcome to collect your order, but you are advised to phone it through prior to collection. Office hours: 9.30am-5.30pm Mon-Sat.
ORDERING BY POST
Simply send your order in on an A4 page, listing the items you require, the total cost, and your name & address, or if you wish simply mark off the items you wish to order, fill in your name etc. and send this page to Epic Marketing, 1st Floor Offices, Victoria Centre, 138-139 Victoria Rd, Swindon, Wiltshire, SN1 3BU.
ORDERING BY PHONE
Call any time between 9.30am & 5.30pm Monday to Saturday with your credit card details and the items you would like to order.
UK Delivery charges. Please add a total of 50p for Postage & Packing in the U.K.
SAME DAY GUARANTEED DISPATCH ON ABOVE TITLES ADD £4.00
Epic Marketing, First Floor Offices, Victoria Centre, 138-139 Victoria Rd, Swindon, Wilts. SN1 3BU. Tel: 0793 490988

Animation antics

Still animations are a thing of the past. MainActor brings life and meaning to your screen. Frank Nord explains how

Long have I wished for some way to beef up my Amiga 3000T's animation capabilities. I bought a Picasso card, but although I could display pretty pictures in all their 24-bit glory, I still couldn't get them to move.

But now there is a shareware program called MainActor, a sort of ADPro for animators, but a lot cheaper.

MainActor follows ADPro's principles of Loaders and Savers quite closely, with directories for Anim_Loaders/_Savers and Pic_Loaders/_Savers.

Also, like ADPro, MainActor has Universal loaders for automatically sensing the type of animation or picture to be loaded.

One important point to note about MainActor's Universal loaders is that they come in several flavours to support the best-known graphics boards.

Thus there is a Universal_Retina loader, a Universal_PicassoII loader and one for the Merlin card. An EGS loader has yet to be created, but it is on the author's To-Do-List.

The reason for separate loaders for these boards is that, unlike the Amiga graphics chipset, these cards use the same sort of graphics chips that are used in high-end VGA cards, and are thus more suited to chunky pixel animations (see boxout).

In fact, trying to play a normal ANIM-5 animation that took ten seconds to play back on the Amiga took nearly 13 minutes to play back on the Picasso!

MainActor supports several different ANIM formats from ANIM5 to ANIM8, as well as older variants such as ANIM3 and ANIMJ. In common with clariSSA, animation palettes can change from frame to frame which certainly will help animators on a limited colour budget.

Other animation formats MainActor supports consist mainly of types best-known on the PC, including DL, FLI, FLC and AVI.

DL is a pretty old format, but there are thousands of FLI and FLC format anims available in the Public Domain. AVI is a much newer format developed by Microsoft, mainly to enable movies to be played in a window on the screen.

The AVI format has several different flavours, but as yet MainActor can only load 8-bit AVIs and can't cope with the soundtrack.

SAMPLES

Talking of sound, MainActor has the ability to attach an IFF sample to each individual frame of your animation. Nothing could be simpler. You just tell MainActor which frame to attach the sample to, which channel to play it through and that's it.

MainActor then creates a file called ANIMNAME.snd where ANIMNAME is the name of your animation, and then whenever you use MainActor or MainView – the standalone anim viewer – to show your animation, it automatically plays the sample for you.

The one slight difficulty is that only the path and name of the sample is kept with the anim, which means that you might have problems if you move your samples drawer.

Creating an animation in MainActor from single frames is a very easy process. Just get all your frames generated by, say, Imagine or Lightwave, set your loader type to Picture and IFF, hit the load button and get the entire picture list. Then choose Select All from the menu and choose your animation saver type.

If you are creating an anim to be played back on the Amiga select one of the ANIM formats, and if you want to give your work to a friend with a PC or graphics card, choose FLI or FLC. Then just hit Save.

MainActor will ask whether you want a Palette-per-frame animation or one with a locked palette and then it will start saving. And just as you can save single frames into an animation, you can also save an animation back out as single frames, in case you want to do some post-processing or just get that one frame to keep as a still.

Converting one sort of anim into another follows the same sort of rules and is just as easy.

There is one additional animation format that hasn't yet been discussed. Because of the Author's close association with Village Tronic, the creators of the PicassoII graphics card, MainActor will also create Picasso format animations which can be in either 8-bit, 16-bit or 24-bit.

MainActor will automatically dither 24-bit ➤

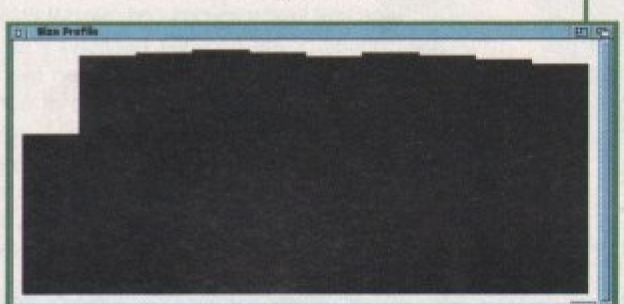
No shareware!

The author of MainActor has decided to make it a shareware package rather than a commercial offering, although it is good enough to be one.

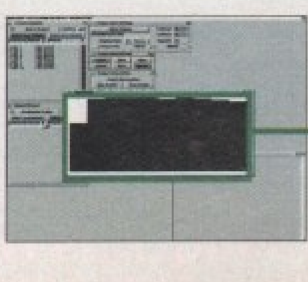
As it comes from your local PD library, MainActor is not crippled in any way. You can still create, convert and play back animations in various formats, but as you save an anim you will get a requester appearing every five frames asking you to register your copy.

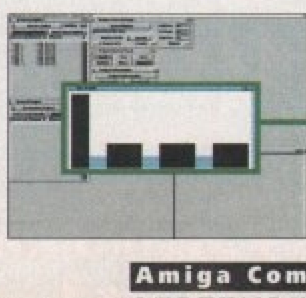
This, to my mind, is the fairest way of ensuring registration of a shareware package, because although you might think that having a requester pop up every five frames is no big deal, if you have a 350-frame animation to save it will be popping up often enough to get you really frustrated.

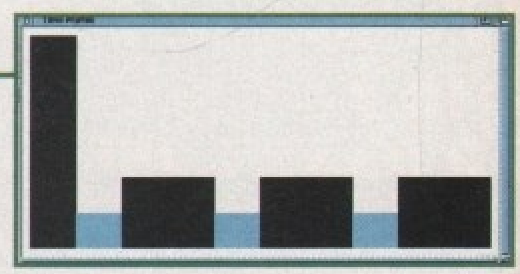
I know a lot of people complain about registering shareware, especially when it is of foreign origin, but it really isn't that hard. And in MainActor's case it is definitely worth it.



In case you're wondering how big those deltas are from frame to frame...







Oh-oh. I've got decompression problems on all the frames that are represented by black bars. The blue bars represent OK decompression times

images down to 16-bit if you want it to, but 8-bit anims have to have their 24-bit frames rendered down to 256 colours using some other package, such as ADPro.

Playback speeds using this Picasso format are very impressive and the quality is outstanding. The file size isn't actually as enormous as you think it will be either.

A 350-frame anim I created as a 256 colour FLC is about 3MB in size, while its 16-bit Picasso counterpart is only 5.5MB. Not bad for all those extra colours!

One of the bugbears with animation is normally having to either draw or render heaps more frames if you want your animation to pause for a while on a particular frame.

With MainActor this isn't necessary. You can set the timecode for each frame individually, showing the first frame for three seconds, for example, and the last for two seconds.

This isn't possible with the PC anim formats as they don't have a provision for timecoding, but it works just fine with all the ANIM variants and the Picasso format.

PLAYBACK

Once you have made all these amazing 256-colour anims, you might look at the file sizes and notice that you don't actually have enough RAM to load them back into MainActor and play them back. You can't even play them back through MainView. What next?

Well, MainActor has a facility to play anims back from hard disk. It might not be a perfect solution but how else are you going to play a 40MB animation?

And as a matter of fact, MainActor is no slouch when it comes to playback from hard disk. With most of the animations I have created, playing back from hard disk still gives me about 10 frames per second on average.

MainActor has a host of other little features that you might not notice at first because of its amazing ability to make all these anims from your stills, but the fact that you can have up to five animation projects open at any time is a boon, as is MainActor's ARexx interface.

In terms of information gathering, MainActor provides you with a size and time profile to help fine tune your anims. The size profile shows graphically just how large each frame of your animation is, while the time profile shows where potential problems might lurk in the time taken to decode each frame of the animation.

Any black bars in this graph show that those frames are taking too long to decode and need to have changes made.

In conclusion, I would say that MainActor is probably the best piece of software to go on my hard drive this year. It has improved immeasurably since I first started using it when it was version 1.2 back in November last year, and I look forward to the same amount of improvement when I get version 2.

One man on his own has put together a package that beats various commercial packages hands down, and has released it as a shareware product whose registration fee is less than most commercial pieces of software, and is worth a lot more.

In the future I would like to see the developments that the author talks about, such as Mpeg loaders and savers, along with improvement to the ARexx interface and the ability to do more with the framelist à la clariSSA.

I would also like to see the ability to load AVIs completely, including soundtrack, and more importantly, to be able to save them back out.

All in all, this is an admirable effort by a superb programmer who deserves to have great success.

Are your animations chunky enough?

When the Amiga was first dreamt up, its designers saw fit to use a bitplane method of screen representation. That's to say, your four-colour Workbench screen is made up of two bitplanes and the combinations of the two bitplanes give four different colours.

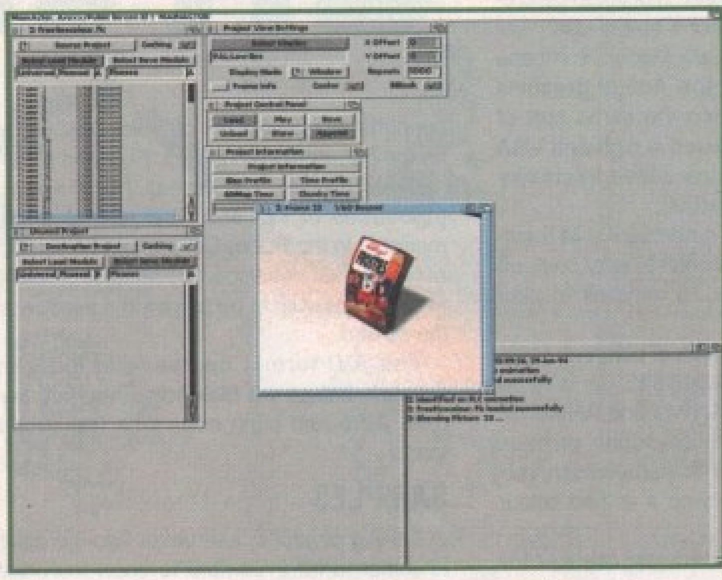
This is an extremely cost-effective way of doing things when the colour count is low, say up to 32 colours (which is five bitplanes). Any more than that and things really start to slow down, which is obviously not acceptable for animation (or a decent operating system, for that matter).

The originators of the VGA standard on the PC decided to go another route and head straight for a 256-colour screen format. Now, as we all know, 256 colours can be represented by eight bitplanes, but it's fairly slow, as anyone with an AGA machine who has tried to run their Workbench in that many colours has found out.

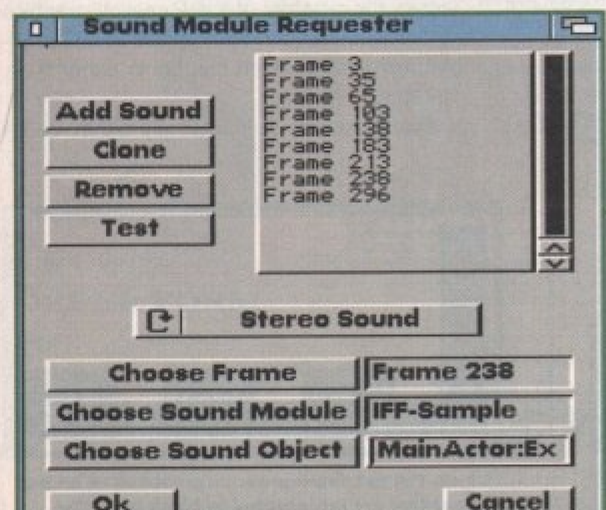
If 256 colours is eight bitplanes, then each pixel on the screen could just as easily be represented by a single byte (or eight bits), rather than representing the whole screen as eight rather unwieldy bitplanes.

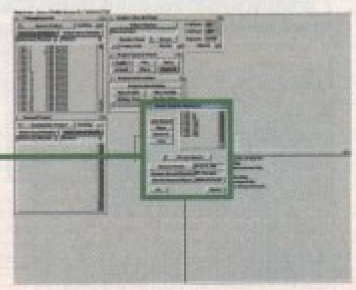
This has advantages and disadvantages. Firstly, it means that a two-colour chunky pixel screen is as slow as a 256-colour one, and that it's a lot harder to do things like parallax effects or scrolling. But by the same count it is a lot easier to do stuff like scaling and rotating.

The advent of the CD32, with its Akiko chip responsible for converting chunky pixel information to bitplanes, should mean that sometime in the future we should see Amigas capable of dealing with both sorts of graphics easily.



MainActor even lets you play animations back in a window on the MainActor screen





In space no-one can hear you scream, unless of course, you've got MainActor

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

2.0 Workbench | 3.0 Workbench | Hard drive

68020 | 68030 | 68040

The bottom line

Supplier: Marcus Moenig – Shareware.

Price: $50 for registration with a full printed manual, $25 for registration with electronic docs.

NER

Tel: 081-345 6000
Fax: 081-345 6868

RAM for A600

1Mb with clock £34.99
1Mb without clock £23.95

RAM for A1200

Plug straight into A1200 trapdoor
Upgradeable FAST RAM 1, 2, 4 or 8Mb
Three types of FPU

1Mb £89.00
2Mb £115.00
4Mb £169.00
8Mb £389.00

FPU

25MHz £35.00
33MHz £79.00
40MHz £139.00

SIMMS for GVP 1230

1Mb £69.00
4Mb £189.00

SIMMS for GVP HD

1Mb £28.00
4Mb £149.00

A500 plus RAM

1Mb £25.00

PCMCIA CARDS

2Mb £109.00
4Mb £169.00

DISK EXPANDER

Disk Expander..................£33.00

OPTICAL MOUSE



300DPI Optical Mouse with Optical mat

£29.95

OPTICAL PEN MOUSE



A stylish optical pen mouse

£34.95

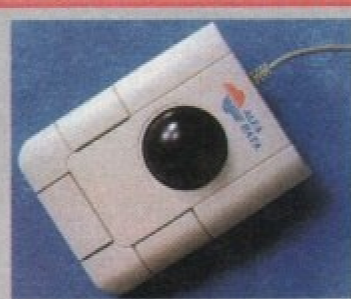
200 DPI MOUSE



A good quality 200 dpi mouse

£6.99

TRACKBALL



Stylish three-button trackball

£29.95

400 DPI MOUSE



Alfa Data 400 DPI mouse

£13.95

MOUSE/JOYSTICK SWITCH



Auto Mouse/Joystick Switch

£12.95

SCANNERS



Alfa Data 256 scanner for all Amiga computers. Includes Touch Up software & OCR software

£139.00

Minimum 2mb RAM & Hard Drive

All New 800 DPI hand scanner for ALL Amiga computers.

only **£119.00**

Power Scanner

Powerscan 4 mono £119.00
Powerscan 3 Mono £99.00



Colour scanner for all Amiga Computers NEW from Alfa Data 265K 18-Bit Colour. Complete with scanning software

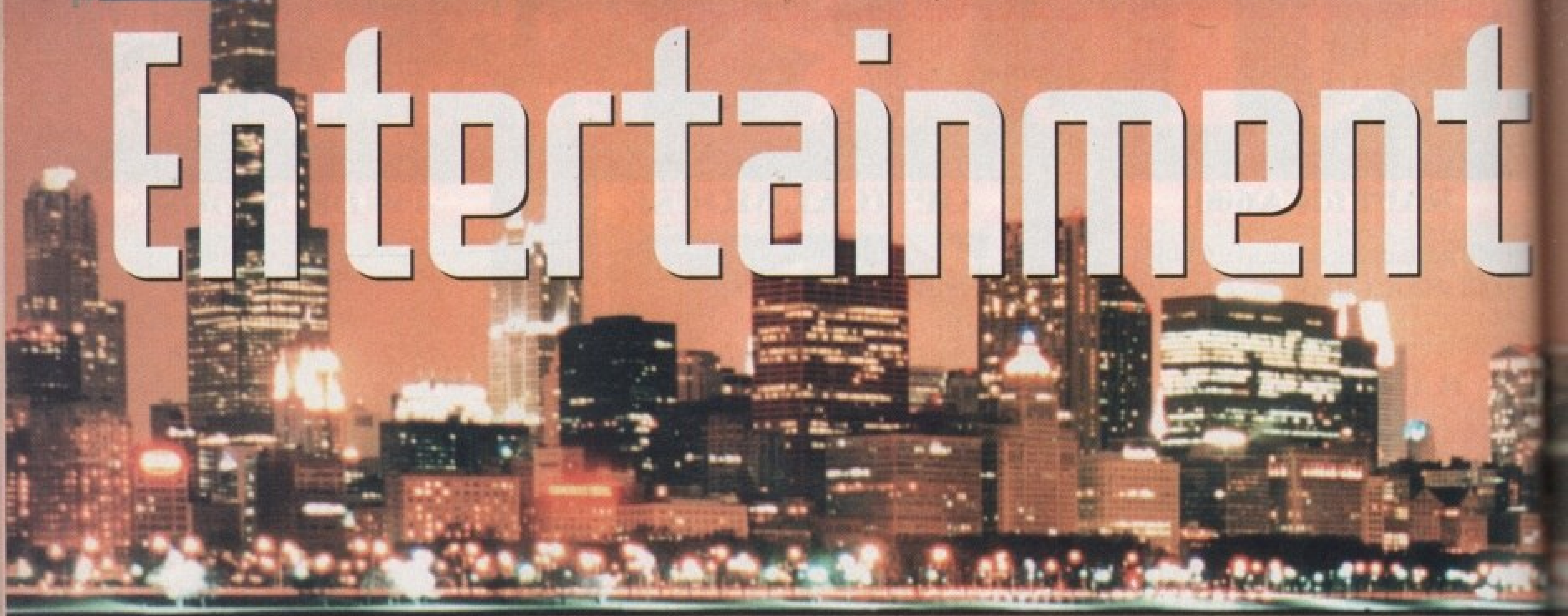
£339.00

Official purchase orders welcome from Educational establishments and major corporates. (Strictly 14 days net). Please phone for approval.
All prices include VAT. Prices and specifications subject to change without notice. E&OE.
All goods under £50 please add £3.50 p&p and all goods above £50 please add £10 Courier Service. Next day service please call.

126 Fore Street, Upper Edmonton, London N18 2AX

Major credit cards accepted

Entertainment



Chicago, Illinois USA, or more specifically, the McCormick Place on 22nd and Lakeshore Drive was the setting for the Consumer Electronics Show this year.

The exhibition hall was not only crammed with neon, lasers and a strong turnout of the US games industry market leaders, but also a welcome reprieve from the 90°F temperatures that besieged it.

The Amiga presence at the show was somewhat disappointing, but when questioned about their European operations, many present had the Amiga machines as an integral part of their marketing game plan. Armed with a spotlight, electrodes and thumbscrews, I set about interrogating the software industry armies.

Ocean has shoals of new releases within its depths. The press pack I was given was as stuffed as a pirahna at a diving contest. First out of the box is an Amiga rendering of the adventures of Mighty Max. Based on the popular (if not ubiquitous) toy character, this game takes inches off your waist and feet off your height.

At only one inch tall, your earth-saving mission is to beat Skull Master (and with a name like that, you can be sure he's not on your side) to the 400 components of one of those doomsday weapons (you know, the ones that come in packs of 10) scattered about the globe. To aid your quest for world peace, the programming deities have bestowed upon Max the gift of teleportation.

The split-screen, two-player mode offers the ability to make this game a social event. You and a friend, or closest approximation thereof, can search for different components while thwarting each other in the process.

The game has five scenes, each with five levels, and promises much in the way of entertainment and longevity.

"Devastation is the name of the game." Remember this and you will win – at least if the description of Kid Vicious is anything to go by. This game is designed for those hardened game players who do not understand defeat, will not tolerate failure and all that other gung-ho ranting.

Emotions

Remember those moments when you're gripped in the throes of humiliation, having just been trounced by an adversary no bigger than your thumb nail.

That animal desire to pick up your machine and heave it against the hardest object in sight (usually a wall) and then jump up and down on it, until all of a sudden, next time you play the game, you miraculously win.

These are exactly the emotions required to win this game. Kid Vicious is an ex-easy going Neanderthal since usurped from his mundane sabre-tooth tiger-infested life. Kidnapped by evil scientists for use in 21st century experiments, Kid V. has to smash his way home armed only with his club.

This platform game, programmed by the Magnetic Fields team, comprises of five worlds with four sections per level. The object is to find the missing link and figure out how to get back home.



Mutant League Hockey rears its genetically engineered head on the Amiga

Your chances of success are greatly enhanced by smashing up everything in sight, for the only way to exit a level is to cause a pre-determined amount of damage.

Recall that scene in Back to the Future where Mike Fox is hitching a ride on the back of a jeep while on his skateboard? Ocean have brought this pastime to you via Skitchin', originally an Electronic Arts Mega Drive title now primed for an Amiga conversion.

For years now, people have been bombarded with the phrase "do not try this at home." Well now you can, and I would encourage you to not only try it, but be creative with it too in the safety-conscious computerised version of the "sport".

This race-style game awards points for 360° turns, twists and backflips while being towed behind a vehicle at reckless speeds on a crowded road.

While encouraged to take as many chances as possible, heed should be paid to the oncoming traffic, liberally scattered obstacles and your opponent – if playing in two-player mode. One to keep an eye out for.

Finally, Ocean has solved the age old question of what do you get when you cross ice hockey with a good healthy

Par for the course

Never has a game had such an influence on people as golf. It can transform them from the placid dull tones of today's business attire, to throwing caution to the wind and dressing up in some serious pimp gear. Also being converted across from another Electronic Arts' Mega Drive title, PGA European Tour is soon to make an appearance on the Amiga fairway.

Golf simulations are nothing new, so when asked what the big deal about this one was, Ocean were only too pleased to point out its features.

Foremost, the game offers five world class courses; Wentworth (England), Crans-sur-Sierre (Switzerland), Le Golf Nationale (France), Valderrama (Spain) and Forest of Arden (England).

Should you not feel confident, even in the privacy of your own home, about the daunting challenge posed by the world's top courses, there is the option to practice strokes on either the driving range or putting green.

The excuse of rain stopped play cuts no ice here – it is possible to change the weather conditions to suit your tastes via the game's many options.

The social trend of computer games is carried a little further in this incidence, for not only can you compete against the computer (with varying skill levels), but also up to three other players can play with you.

t USA



From the sundrenched, football feuered city of Chicago, Matthew Phillips reports on the entertainment show of the year



dose of radiation (within government safety limits of course) and the non-human cast of Alien I, II and III combined: Mutant League Hockey.

This isometric 3D game features goal posts that turn into monsters in time to devour any opposing player that gets too close. Not only are your opponents equipped with the usual hockey kit, but lasers and other anatomically detrimental devices too.

If you're tired of those tediously tame games where fouling is frowned upon and penalised accordingly, this is for you. To win the player has to play dirty, be mean and if possible, mutate a little too.

You can choose from a team of robots, aliens or trolls. Before you choose the team, I would suggest going for the one with the best weapons as opposed to the superior hockey skills. The game features a hard rock intro sequence and plenty of lively animation sequences.

CREATIVITY

The CES event was an open arena for all involved in the gaming industry to show their creative muscle. Aside from the games software houses, there were plenty of other companies trawling the show for business. Their products tend to be a little more generalised in so far as they are targeted at multiple platforms.

They say image is everything and when it comes to gaming software, nothing could be further from the truth. In fact, the graphics have become such a critical part of the game design process that there are companies out there who either sell purpose-built equipment or provide a service that caters for the game player's thirst for graphic perfection.

Two such companies include Alias Research Limited and Wavefront. Not only were they represented by a phalanx of designers and PR people, the companies had set up shop on the floor and were giving slick demonstrations to spellbound audiences, with the aid of their Unix-based Silicon Graphics Indy workstations. Within seconds the overhead screen was filled with skeletal images being rotated, flipped, squashed and blown up, all at the flick of the wrist and press of a button.

This graphics manipulation technology has been around a while, but now with the addition of ray tracing, surface texturing and surface texture interaction, new dimensions in graphics' development are now being realised.

First the designer will create the skeleton of the object they have visualised. Once deemed gameworthy, the skeleton will be given the digital equivalent of tendons.

These are very similar to human design, in which the middle of one 'bone' is joined to the other via a line (tendon). This technique is important, for it dictates how the skin/texture covering a join will flex and move.

With the tendons now in place, next comes the skin. Several more quick clicks and button presses instantly cover the entity with a fresh coat of new, life-like skin.

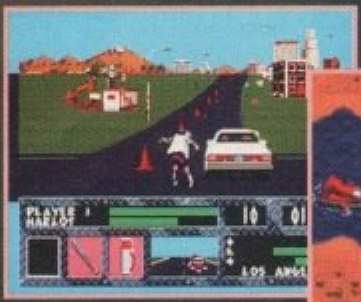
For those of you wondering whether your machine will do justice to the many graphic masterpieces now possible, fret

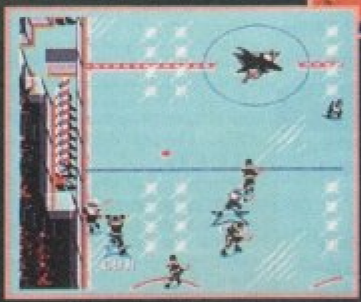
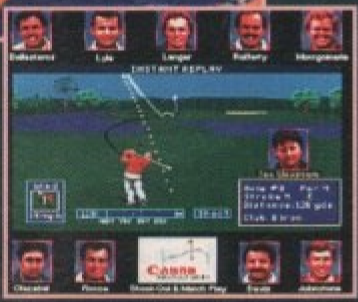
In reality

Note of interest: Wavefront's software was used in the making of such films like In the Line of Fire, Lawnmower Man, and Aliens III. Lucas Film's Industrial Light and Magic, the movie special-effects gurus, enlisted the help of Alias Research software in the production of The Flintstones – keep an eye out for Dino.

Ever wondered what it would really feel like to be on the receiving end of a 10,000 watt laser discharge. Now you can buy devices that not only help you beat up your on-screen opponent, but will happily beat you up too. Aura Systems Inc, taking the virtual reality concept to the extreme, have come up with virtual pain (although not quite so virtual).

A device that wears like a ruck sack enables the player to feel every kick, punch and laser beam of their favourite game via a large speaker pressed against their back. It will work with any machine that puts out sound and this masochist's fun factory is scheduled for release around Europe in September.



From left to right clockwise - Skitchin', a skateboard racing game, Jungle Strike, the classic Mega Drive shoot 'em up, NHL Hockey '94 and PGA European Tour, both superior sports titles, are all games making their debut on your machine in the future

not. The software employed in the creation of these pseudo-lifeforms is aware of possible target platform limitations and will effectively optimize the graphics produced accordingly.

The good news here is that since the optimization process is all built in and therefore simple to apply, it will be a good while before your machine is not eligible for these visual assaults.

Despite being a US show and not wishing to appear overtly nationalist (just a little proud), it was good to witness a strong British presence. Pursuant to many conversations, it was clear that these companies rated the Amiga as strongly as Sega, Nintendo or equivalent, and had every intention of its continued support and development, regardless of its popularity in the States.

Britain and its support for the Amiga range has for a long time been setting the pace in the recreational computing world. The Consumer Electronics Show and its participants gave me cause to think this will continue for a long while to come.

AC

FIVE STAR PD

QUALITY PD & SHAREWARE: WE STOCK OVER 4500+ DISKS

All titles are compatible with all Amiga (Unless stated)

We only use top quality blank disks & all disks come with printed labels guaranteed 100 virus & error free

all PD & ShareWare only **99p** per disk

PRICE & HOW TO ORDER

TO ORDER...JUST WRITE THE DISK CODE & TITLES + ENCLOSE THE CORRECT PAYMENT. DON'T FORGET YOUR NAME & ADDRESS. YOUR ORDER WILL BE DESPATCHED ON THE DAY WE RECEIVE YOUR ORDER

PD Prices.........99p per disk
please add 70p for postage per order (UK)
latest catalogue disk please add 70p
MAKE P.O. or Cheque payable to: FIVE STAR PD
send to:
(Europe add 25p per disk P&P)
(Worldwide add 50p per disk P&P)

FIVE-STAR
(Dept AC18)
48 Nemesia
Amington
Tamworth
B77 4EL
ENGLAND
Tel: 0827 68496
We open 7 days a week & all orders same day despatch

we also stock FRED-FISH 1-890 *T-BAGS 1-57 *L.S.D. docS 1-46 *SCOPES 1-220 *ASSASSIN 1-150 *GlamourS etc.

UTILITIES

U001 +A-GENE program helps you trace your family tree
U002 +AMIGA SYSTEM TESTER C.L.I. base tester
U088 LABEL DESIGNER Good labels designer
U101 DATA BASE WORKSHOP (2 disks) Database compilation
U144 AMIGA FOX D.T.P. Desk Top Publishing for the Amiga
U145 XCOPY PROFESSIONAL Very easy & powerful disk copy
U146 C-MANUAL II (4 disks) Teach you how to program C
U160 600 BUSINESS LETTER ready type business letter
U169 PAINT AND ANIMATE Tool to paint and animate
U170 BIORHYTHMS v4
U195 AMIBASE-PRO II regarded the best & easy to use
U220 AMOS PAINT Easier to use than D-paint
U233 SPEECH TOY Make your Amiga speech more human
U242 IMPLODER 4.0 Make more programs fit on one disk
U250 +VIDEO TOOL (3) Lot of Video titler & programs
U284 COPY & CRACK TOOLS large collection disk copier
U287 P.C. PASCAL (2) Good Pascal language (not A1200)
U300 MESSY SID II read/write PC/MAC etc files
U331 POWER-MENUS Very easy to use menu program
U334 EMULATOR COLLECTION II A64, PC, Mac, PC task, QL etc emulator (500 1.3 only)
U335 FREE COPY V1.8 Copy some commercial games
U343 LITTLE OFFICE Our best seller yet. Collection of the best of Wordprocessor, database & spreadsheet
U352 DESK TOP VIDEO 1 & 2 Video tool (titler)
U360 R.P.G. & ADVENTURE GAMES creator (2 disks)
U377 NCOMM III Latest in Modem software & cruncher
U383 LYAPVNOU GENERATOR Create lovely space scenery
U384 MED v3.2 The best & latest music writer program
U390 DATA BASE COMPILATION Three very good databases
U401 PLUS ISSUE 1-14 (WB 2/3) Collection of useful utilities for the A500+, A600, A1200 only
U427 PRINTER-STUDIO Improve print out text or graphic
U431 VIDEO APPLICATION (2 disks) Video titler utilities
U480 HARD DISK CLICK (2 disks) Utilities and Menu system for hard disk user
U507 DCOPY III PROFESSIONAL The latest and regarded the best in disk copiers
U572 CLUMSY ICON + CREATOR TOOL (4 disks) Pack with Icons & Icon creator program
U581 MAGNETIC PAGES Excellent disk magazine creator
U582 GATOR GRAPHIC TUTOR Get the most out of your Dpaint (not A1200)
U599 PRINTER TOOL Make the most of your printer
U601 DISKSALV II + ABACKUP Regarded two of the best HD & floppy disk backup & salvage
U609 MICRO BBC A/B EMULATOR Fully emulate the BBC computer + tutorial
U621 HOW TO CODE IN C (2 disks) Teach you how to Code in C (machine code)
U622 ACTION REPLAY (V1.5 or V4) Our best seller to date, copy, rip etc. (V4 is for A1200 other Amiga use V1.5)
U630 LOCKPICK 2 Remove copy protection & provide cheats for over 450 games. Recommended
U637 DISK REPAIR KIT 2 Repair, salvage & copy disk
U645 PC EMULATOR V2.11 (1200 only) 256 colour VGA
U650 COPY & CRACK TOOL 2 Latest copying tools
U651 C MANUAL 3 (12 disks) This is the big one, the latest in C manual. Ideal for learning C
U670 RS DEMO MAKER 2 (2 Meg) (not A500 1.3)
U677 MAGIC WB Improve your workbench environment
U681 TEXT ENGINES V4.1 the latest with 36,000 word spellchecker. Totally recommended
U682 ASTRO 22 V3 (new) Calculate star/sun position & star sign etc. Very accurate to 38 minutes
U683 DOS FILE PROTECTOR protect any text
U685 DISK MANAGER V3 catalogue file on your disk
U686 VIC-20 EMULATOR (new) games available soon
U689 FORCASTER V2 horse racing prediction game
U690 ASSASSIN COPIER collection of 9 copiers
U694 SUPER DUPER III very fast copier
U700 ANIMATION CONSTRUCTION KIT V1.2+
U702 V MORPH V2+ Create Terminator 2 effect
U703 POOL TOOLS 2L (new) horse racing prediction
U705 TRONI-CAD Create circuit boards, few examples include a sound sampler & modem etc.
U707 GAME TAMER V4 For even more games cheat
U712 EDWORD v8 PROFESSIONAL the best wordprocessor
U713 CDTVv2 PLAYER Lets you play CD while in WB
U718 MAGNUM 1.7 Latest in disk magazine creators
U721 FONT FARM V3 font + brilliant IFF font viewer
U722 EASYCAL+ sheet available yet with tons of features eg print & with max 92583 cell available
U724 PARNET SET UP WB (2 DISK)
U726 PARNET CABLE MAKER INSTRUCTION
U731 A-Z CHEAT 529 different games cheats
U727 AREX MANUAL tutorial on AREXX
U728 MENU MASTER V3 menu program with password
U730 SOFT AGA EMULATOR (A500+ A600 ONLY) min. 1.5 meg
U736 AWARD MAKER It makes awards easy 200+ included
U738 S. KICK PROFESSIONAL v3.2 (WORKBENCH 2/3 ONLY) 3 versions of the A500 emulator (NEW)
U742 HOW TO CREATE AUTOBOOT DISK self explanatory
U743 UTILITIES DISK MAKER 3 create auto boot disk. Ideal companion with above, recommended
U744 FRACTAL MANIA 93 & Biomorphs
U746 GARDEN DESIGNER design GARDEN with shrubs, trees, footpaths etc in full 3D
U747 ASTRONOMY V2 new latest version
U748 ILLUSIONS draw colour cycling effect
U749 DISK REPAIR 3 - 11 disk repair program
U750 MUSIC CATALOGUE (not A500 1.3) catalogue all your music collection
U751 SYSTEM CHECKER TOOL many system tester util
U752 EPU STACKER (not A500 1.3) EPU will double the storage capacity of your HARD DRIVE & DISK DRIVE
U754 PARBENCH installer (complete) connect any 2 Amiga/cdiv etc (Just requires Parnet cables)
U755 PRO CAD electronic. The latest circuit board designer, easy to use with examples circuit
U757 150+ PRINTER DRIVER Contains over 150 printer drivers for all sorts of printers
U760 ICON PLUS 1, 2 & 3 (3 DISKS) Hundreds of stunning WB2 or above ICONS
U761 RELOCKIT 1.4 (not A500 1.3) new A500 emulator)
U777 TELETEXT RECEIVER (build a teletext receiver)

GAMES

G096 POPEYE LCD C64 classic conversion
G112 CUBULUS puzzle games based on a RUBIK CUBE
G222 MEGA 21 GAMES collection of 21 game packs
G235 DRAGON CAVE The best animated 3D puzzle game ever. Very similar to Dungeon & Dragon type games
G237 SCRABBLE high quality board games conversion. Up to 4 player or play with computer. (not A1200)
G256 INSIDER CLUB buy/sell Stock Exchange games. Share objective of the games is making money
G272 TANK BATTLE Brilliant 2 player game
G274 MR DUG Arcade conversion (few years back)
G329 MADONNA NUDE PUZZLES 15 puzzles (jigsaw game)
G330 TOP SECRET Brilliant platform games similar to OCEAN RAINBOW & PARASOL (not A1200)
G333 CYBER-NETIC regarded the best defender type games with all usual powerup. Recommended
G334 DONKEY KONG Rescue your girlfriend (not A1200)
G335 CRAZY SUE 2 cute platform games. Brilliant graphics
G356 WONDERLAND brilliant Mario Brother games clone
G362 DELUXE PACMAN Still the best Pacman ever released
G366 BINGO CALLER Amaze your gran with this fully speech bingo caller
G373 AIR ACE II Very playable ZENON 3 shoot games
G389 CASINO GAMES Lots of casino type games
G390 TETREN tetris clone (90% mark in AMIGA FORMAT)
G393 BUBBLE GHOST Game boy conversion & very playable
G400 FIGHTING WARRIOR PD version of Street Fighter 2 amazing large graphic & it is £23.99 cheaper
G410 FATAL MISSION Nemesis clone with 1 or 2 player
G417 FIVE STAR 22 PUZZLE PACK Amazing collection of 22 puzzle type games, our top seller
G422 SERENE 3 similar to the commercial game ZENON
G435 ROULETTE the best Casino roulette simulation yet
G438 TRAILBLAZER conversion of the C64 classic game
G441 E TYPE 2 the best asteroid clone ever
G443 OLYMPIAD DISK (2 disk) Sport even with Lemmings as the star (very good)
G460 WIBBLE WORLD GIDDY Brilliant platform game with very large & cute graphics similar to the DIZZY series
G470 BALL LIGHTNING 1 or 2 player multi level platform
G490 MEGA BALL 2 new & highly playable breakout
G500 TRANSPLANT Voted the best game of 93, brilliant E-TYPE clone but much better, loads of power up & level
G502 DRAGON FIRE Excellent graphics (A500 only)
G519 LABYRINTH II Very good text only adventure.
G520 FATAL MISSION 2 (new see G410)
G521 FRUIT SALAD VG collect/ platform type games
G530 MAD FIGHTER (A1200 only) Superb street fighter 2 clone with very large well animated characters
G531 OPERATION FIRE STORM detailed graphic platform games with lots of action/shooting element. Brilliant
G532 AGA KLONDIKE (A1200 only) (3 disks) the best card games yet & each card has different glamour girls pic
G535 BLACK DAWN the best RGP games yet similar to HIRES GUN, very highly rated in most Amiga magazines
G540 ORK ATTACK Very bloody shooting games with large & detailed graphics
G545 KUNG FU CHARLIES Very playable platform beatemup
G546 RAID 4 refined vertical scroll shoot em up
G560 IMPERIAL WALKER Take control of an X wing fighter in this 3D game
G567 STAR BASE 13 (2 DISKS) Brilliant graphic Epic adventure like Monkey Island 2. Recommended
G568 MONACO Fast furious racing games
G569 SUPERIX Birds eye view Formula 1 racing games
G525 GRAND PRIX MANAGER 93 Very good management type games, use point & click system, good
G526 MENTAL IMAGE 1 contains 3 games
G527 MENTAL IMAGE 2 contains 3 games
G528 MICRO MARKET well presented stock market games
G529 SKID MARK extremely realistic & very playable 4 x 4 of road racing games
G534 CASTLE KUMQUAT Very good overhead (like Alien Breed) games puzzle with lot of inter connect level
G542 ROAD TO HELL Brilliant 1 or 2 player overhead view car racing games with engine upgrade option etc.
G544 SUPERTOM CAT New vertical shoot em up games
G546 RAID 4 more refined vertical shoot em up
G657 AMOS LOADSA MONEY another very good fruit machine simulation with exceptionally large reel
G659 MR MEN OLYMPICS (2 DISKS) take Mr MEN through 5 events including 100 metres, javelin, hammer, high jump etc.
G660 L.C.D. DREAM Straight conversion of 4 LCD games including Octopus, Parachute, Fire Attack, Oil Panic
G661 POP QUIZ Answer by click on A, B or C box
G662 JELLY QUEST 3D colouring games similar to q bert
G664 NEIGHBOUR GAMES (2 DISKS) graphic adventure
G667 GOLF (2 DISKS) One of the first PD GOLF games
G668 AMOS CRICKET 2 New Amos cricket simulation, very playable if you like this sort of game
G669 MUGSYS REVENGE gangster/graphics adventure
G670 ESCAPE FROM DOOM animated graphic adventure
G671 DUNGEON FLIPPER This is the first & only Pin Ball
G672 JIGSAW (2 DISKS) Jigsaw games
G673 "BOBBY" GARDEN + DIGGER (NEW) 2 digger type
G674 HIGH OCTANE (NEW FASTER VERSION) not A500 1.3
G675 TIME RUNNER III very similar to the FLASHBACK

MORE GAMES PLEASE ORDER A CATALOGUE DISK

FIVE STAR FREE DISK
BUY 10 + DISKS AND GET 1 DISK FREE
Please cut and return this token for free disk with 10 or more titles ordered (offer only applies with this token)

EDUCATION

E001 KIDS PAINT Paint package designed for kids
E002 COLOUR KIT Colour book for kids
E003 TREASURE SEARCH Find the hidden treasure
E004 LEARN & PLAY I (not A1200) Maths & games
E005 LEARN & PLAY II for kids (order together)
E006 SPANISH TRANSLATOR (English to Spanish)
E008 MR MEN (A500 only) Story adventure
E009 ASTRONOMY tutorial on solar, star systems
E010 SIMON & SPACE MATHS Maths & Simon games
E011 EDUCATION PACK 1 (5 disks) Lots of education programs range from Maths to games. We recommend you buy this collection
E019 DINOSAURS Explains what is a dinosaur
E021 STORY LAND II Interact puzzle game with 4 worlds to visit & solve (buy it....recommended)
E022 LANGUAGE TUTOR 4 languages
E023 TALKING COLOURING BOOK Very good Art/Paint package that talks
E024 EASY SPELL II Improve on their spelling
E025 SCRABBLE (not A1200) board game
E026 WORDS Can help you solve crosswords
E027 OSWALD large cartoon game kids will love
E31 IQ TEST + IQ GAMES Great to test your IQ
E33 +KEYCLICK II Good typing tutor
E35 CHESS HELPER chess tutor program
E38 AMIGA TUTORIAL explains about AMIGA
E39 COMPUTER CARE
E40 +GUIDE TO LOWER BACK PAIN Tutorial on the spine & how to avoid back pain
E42 +FRACTION & SILQUEST 2 good Maths programs
E44 STEAM ENGINE V2 Cut away animation of the Steam Engine
E45 PETROL ENGINE Cut away animation of the petrol engine
E46 GAS TURBINE ENGINE Cut away animation of the gas turbine engine
E54 DEMOLITION MISSION Simple game for kids, destroy buildings
E57 APPLE CATCHER Good graphics easy to play
E58 CROSS MAZE & CRYPTOKING
E59 VERB QUIZ Testing you or your child the word & it related
E61 KING JAMES BIBLE (4 disks) A complete bible on 4 disks fully menu driven
E70 +MATHS DRILLS Help kids improve maths etc
E071 +ERROR INFO Gives info on error guru message
E074 +AMIGA BEGINNER GUIDE
E075 +WORLD WAR 2 2nd World War with maps/pics
E076 SCIENCE (4 disks) Excellent mix of physics, chemistry & science programs. Recommended
E080 KIDPRIX New paint package specially for kids
E081 ASTRONOMY (4 disks) Plot sun location, find star, solar position etc
E090 KID D.T.P. Easy desktop publishing for kids
E092 SING ALONG RHYMES e Jack & Jill. V GOOD
E094 HIGHWAY CODE TUTOR - QUESTION 7 ANSWER Teach you all the highway code signs
E096 READ & LEARN With the 3 little piggy story
E097 BACK TO SCHOOL 1, 2 & 3 (3 disks) Lots of games and educational programs for kids, recommended
E100 LITTLE TRAVELLER Info on world wide places
E101 WORLD GEOGRAPHY map of the world & Britain
E103 DISCOVERY OF THE ATOM (2 disks) tutorial
E104 DESK TOP GUIDE TO MUSIC (3 disks) Massive tutorial guide to making music, recommended
E107 TRUMPTY FIREWORK ALPHABET Very entertaining way to teach your child the alphabet, fully animated
E109 MR MEN OLYMPIC (2 disks) large Mr Men characters as the stars even for this Olympic. Recommended
E110 CULT TV DATABASE (2 disks) info on early TV films
E115 ELECTRONIC WORLDS (3 disks) new K. James bibles
E116 HOW THE EARTH BEGAN Info on the Big Bang
E117 PAINT BOX DEMO kid's paint program
E118 WORKBENCH 2 Tutorial (user guide)
E119 DINO WAR Quiz on dinosaurs
E120 JUNIOR MATHS with very colourful graphics
E121 PICTURE PUZZLE Fancy a game of JIGSAW
E122 WORD FACTORY Brilliant, spelling type games
E123 KID DISK 1 best education program includes COLOUR THE ALPHABET 2, Paint etc.
E124 KID DISK 2 more high quality education
E125 JURASSIC PARK must for all dinosaur fans
E126 CHILDREN'S SONGS 2 - 5 excellent children's songs
E127 MING SHU (A500 only) Chinese Astrology
E128 ASTRO 22 PRO V3 latest astrology program
E129 KID DISK 3 (DTP) (follow up Kid Disk 1 & 2)
E130 FRENCH VERB TESTER - helps you with French
E131 CULT TV DATABASE II (2 DISKS)
E132 PHOTOGRAPHY - the Darkroom Brilliant demonstration, how to develop (photo) film. Recommended

More education software in catalogue disk

18+ DEMOS

0001 +Showering Girl 5 (A)	0030 +Mega Mals* (A)
0003 +Bodytalk (2) (A)	0031 +Calendar Girls (A)
0006 +Vz Calendar 1990 (A)	0032 +Mayfair (A)
0007 +NIGHTBREED (A)	0033 +Utopia (A)
0009 +Maria Whittaker (A)	0045 +Girls of Sport (A)
0024 +Sabrina Special (A)	0049 +Page 3 Girl (A)
0025 +Die Filkinger (A)	0070 +Gon Gon Girls (A)
0026 +Madonna Early Days	0071 +Tina Small (A)
0028 Kathy Lloyd*	

DEMOS

D011 MULTITASKING Demo of what is multitasking
D016 DEAD DANCE THRASH good dance music based demo
D050 PINK FLOYD THE WALL (6 disks) Massive music & demo lasts a long time (requires 2 disk drives)
D091 STAR WARS DEMO (2 disks and A500 only) Super starwar demo, lots of X wing anim
D107 ODDYSEE (5 disk & A500 only) Incredible 40 minute space epic journey movies. Recommended
D118 STAR TREK MEGA DEMO A (A500, A1200)
D120 1911 VOYAGE Brilliant demo lot of fill vector
D152 THE ELECTRIC TOUCH Multi scroll vector etc
D174 ACID MIX 5 brilliant acid track
D261 FONTIER Incredible Elite 2 demo animation
D251 MANGA WORLD Brilliant manga slideshow
D252 JAPANESE LANG Learn how to speak Japanese
D253 SUNTEAM GG ESWAT Eswat games
D254 AKIRA DEMO Akira Manga demo
D255 TROOP JUGERNORT 1 Story & games
D256 MANGA WORLD 2 More Manga slide show
D257 SUNTEAM QUIZ Quiz
D258 MAKE IT SO EASY Guess

A1200 ONLY

AGA001 EXTENSION DEMO Stunning demo with fast landscape anim and a rotating city, receive 90% in CU
AGA002 FRACTAL GENERATOR(NEW) Create stunning fractal in 256 colour
AGA003 WORKBENCH HACK Load of hack/toy/blanker etc
AGA006 NEW SUPERKILLER Know & kill 316 types of virus, well recommended
AGA007 MINDWARP one of the very first demo for the A1200
AGA011 SLEEPLESS NIGHT 3
AGA012 PLANET GROOVE release by Team Hoi
AGA013 MOTOR INVADER 2 (2 Disks) Very playable INVADER clone set. Recommended
AGA015 POINT OF SCALE Stunning vector demo came direct from France
AGA016 CHROMA good demo
AGA017 WORLD OF MANGA AGA (4 disks) Load of cute Manga chic slide show in stunning 256 colours
AGA021 MAGIC WORKBENCH Improve the look & add extra command to your Workbench (HD required)
AGA023 U-CHESS the best chess program so far, stunning graphic but requires 4 megabytes
AGA024 WORKBENCH 3 SCREEN Great back drop for A1200 (not for beginners)
AGA41 GIF BEAUTIES VOL 1-10 Available each disk auto boot & contain loads of stunning pics of raunchy women. Note fully compatible with any Amiga
AGA062 BODY SHOP VOL 1-7 Available (2 disks each) See description above (A1200 only) & order with volume number 1 to 7 (2 disks per volume)
AGA080 FIT CHICK VOL 1-5 Available (2 disks each) see description above (A1200 only)
AGA90 ASSASSIN FIX DISK 1 brilliant collection of degrade utilities for running non compatible software, we recommended you get this 2 disk now
AGA91 ASSASSIN FIX DISK 2 (new) latest contained more degrade utility (see above) Recommended
AGA94 RELOKIT V1.4 latest, run A500 SOFTWARE
AGA97 A1200 UTIL - AGA TESTER, SYSINFO etc.
AGA98 ACTION REPLAY V4 Complete ACTION REPLAY on disk
AGA99 MADFIGHTER 2 brilliant street fighter clones
AGA100 AGA BLITZ SCREEN BLANKER
AGA101 FAST GIFF 2 display GIFF pic in Workbench
AGA102 AGA DIAGNOSTIC - NEW system tester
AGA103 BLACK BOARD AGA decent image processor
AGA104 REND 24 Similar to above
AGA105 QUICK GRAB AGA - can grab AGA screen
AGA110 WORLD BEYOND 1 (3) stunning 250 COLOUR fantasy art, leaves Atari users breathless
AGA114 SMELL LIKE CHANEL NO 5 brilliant demo
AGA121 MAGIC FACTORY (1-5) STAR TREK stunning 256 colour raytrace startreks, brilliant
AGA133 AGA UTIL v1 AGA util compilation
AGA134 AGA UTIL v2 more AGA util compilation
AGA135 AGA UTIL v3 more of the above
AGA136 AGA UTIL v4 even more of above
AGA137 IMAGE PROCESSOR IFF picture processor
AGA138 MULTIBOOT - 4 various versions A500 EMU
AGA139 WB3 HARD DISK PREF & INSTALLER installing WB3/prefect the hard disk
AGA140 CROSS DOS PLUS v5.1 read/write PC files

SEE GAMES, UTIL ETC. FOR MORE A1200 SOFTWARE

ANIMATIONS

A013 SPACE PROBE search for alien lifeform
A022 LUXO TEENAGERS Incredible ray trace animation
A072 LIFE A BITCH (18+) We all know life's a bitch
A179 THE LIVING WORLD SLIDESHOW
A187 PERIL OF THE DEEP (2 disks) Incredible slideshow of very big sea creatures
A193 NEMESIS COMIC Animate comic set in space
A215 MADONNA 3 (3 disks) Madonna fans, get this, a must!
A231 ALIENS The best Alien slideshow & demo
A293 MANGA COMIC Cute, chic and robot slide
A302 CAT SLIDESHOW For all cat lovers
A336 FAST CAR (Not A1200) & expensive car slide show

MUSIC

M001 BEASTY BOYS Good, We Want Some Pussy songs
M002 MICHAEL JACKSON Brilliant song of "BAD"
M005 +100 C64 TUNES 100 C64 Games Music
M072 +MADONNA songs from the hanky panky album
M076 POPEYE meet the Beast Boy, very good
M156 +CD PLAYER Simulate a CD player
M160 +I AM TOO SEXY (2 disks) full song
M194 JESUS ON E'S (2 disks) Super music disk
M262 A-Z TUNES (4 disks) hundreds of C64 games music

NEW

ZX SPECTRUM 48k V2
& 50 Original Speccy Games Packs

NEW RELEASE SPECTRUM EMULATOR V2 IS AN UPGRADE TO VERSION 1.7 with this version you can fully program in Spectrum basic or machine code just like the real speccy computer, this version also lets you load your own Spectrum program via a soundsampler & save direct to disk. THIS PACK COMES WITH OVER 50 BRILLIANT ORIGINAL SPECCY GAMES eg. ELITE, WHEELIE, SKOOL DAZE, FINDER KEEPER 3, GLIDERRIDER, EYRON ETC TOO MANY TO LIST

STILL ONLY £4.99 (ALL AMIGAS)

101 Games compilations pack only ~~£12.99~~

Super values 101 of great games pack include CRAZY SUE, INVADER II, TETRIS, ELECTRIC TRAIN, MONOPOLY and 96 more great games etc.

Suitable for all ages & for all Amigas

NOW ONLY £10.99

NEW TITLES

U746 C64 EMULATOR V3 latest release much improved & Commodore 64 emulator (2 disks)
U744 SID Professional. New release disk utilities
U743 AGA ACTION REPLAY IV PRO New & updated
U742 SNOOP DOS V2 latest release
U741 CITIZEN PRINT MANAGER for Citizen printer
U740 SCREEN BLANKER large collection (excellent)
U739 HD MEMORY v2. Use Hard drive as extra memory
X075 MADONNA SEX (3 disks) 18+ only
X074 ADULT JOKE (18+ ONLY) Hmm
U739 RELOCKIT 1.4 Latest A500 emulator
U726 AREX MANUAL tutor on AREX (WB 2/3) only
U738 EPU STACKER Double the storage space on your HD work on normal disk drive
U736 MUSIC CATALOGUE specially for tape, CD etc.
U728 HOW TO CREATE BOOTABLE DISK tutor
U735 DISK REPAIR 3 12 disk repair/recover util.
U723 S.KICK Professional 3 version of WB 1.3 emu
U731 3D GARDEN DESIGNER design gardens in 3D
U750 MR BACK UP Professional back up HD etc
U751 DMS Professional v2 Compress 2 disks into 1
U752 POOLS WINNER GOLD 1 Pools prediction
E125 JURRASIC PARK more learning aid on dinosaurs
E126 CHILDRENS SONGS 5 good nursery songs
E129 KID DISK 3 - drawing program for kids
E130 FRENCH VERB TESTER test French language
G667 GOLF (2 DISKS) very playable golf games
G668 AMOS CRICKET 2 new cricket games
G673 BOBBY GARDEN + DIGGER brilliant coin op
AGA121 AMIGA FACTORY (5 DISKS) STAR TREK
U755 SPECTRUM EMULATOR V1.7 Latest (contains 4 versions for each AMIGA system)
U651 SPECTRUM GAMES (8) use with above

NEW 101 GAME PACK

Brand new collection of 101 games pack. This games pack is ideal for all games fans with enough variation to keep even the most avid games fan playing for a long time. (Comes on large number of disks).

SUITABLE FOR ALL AGES.
COMPATIBLE WITH ALL AMIGAS
ONLY £14.99
SPECIAL OFFER THIS MONTH ONLY
EXTRA FREE DISK G500 TRANSPLANT
(details see games list left on all 101 games pack 2)

EDUCATION & 21 GAMES PACK
Our best seller with the best of education titles, DINOSAURS, KID PAINTS, SIMON & SPACE MATHS, STORYLAND II + 21 ALL SORTS OF GAMES
ONLY £4.99
SUITABLE FOR ALL AMIGAS

NEW FONT 5 DISK SET
5 DISKS FULL of very high quality IFF fonts suitable for dpaint, wb and most wordprocessors. ALL FONTS IN THIS PACK ARE GUARANTEED. NO REPEAT
ONLY £4.99

MANGA AKIRA
PACK 1 (6 DISKS)
only £4.99

NEW PROFESSIONAL CLIP-ART (very high quality)

colour clipart

birds 8	cars 1
cats 1	dinosaurs 2
dogs 10	fishes 7
flowers 10	fruits 3
horses 2	insects 5
instruments 3	mammals 12
world maps 15	planes 2
reptiles 4	ships 2
trees 10	vegetables 4

This new range of professional colour clip art are of the highest quality ever available. Should you wish to see a sample, please order a catalogue disk or request a sample printout when ordering. All clipart disks can be viewed as a slide show. Suitable for any DTP/Paint package etc.

Number represents number of disks available.
We also stock vast collections of black & white clipart

New Pack

only £4.99 per pack & every pack contains 5 disks*

COMPUGRAPHIC FONTS available pack 1, 2 or 3 pack
ADOBE TYPE 1 FONTS available pack 1, 2 or 3 pack
All packs above are suitable for Propage, Pagestream, final copy etc. (please check manual for compatibility).
COLOUR IFF FONTS available pack 1 or pack 2. Stunning 8-16 colour, large colour font ideal for headlines, demo etc. Suitable for Dpaint etc.
BIT MAP CLIPART 5 pack available. Very high quality clipart for virtually all DTP & Paint programs.

All packs above come on 5 disks each and are guaranteed. No fonts or clipart images are repeated

CD1200 Controller

The world of CD-ROM comes to the A1200 with the CD1200 Controller from Gasteiner. Steve White puts it through the ringer!

With the advent of CD32, A1200 owners have been crying out for an adapter that will allow them access to the vast world of CD-ROM.

Gasteiner have answered the call with a PCMCIA CD1200 Controller that allows the user to connect any Mitsumi LUOO5 or the new DoubleSpeed FX001D to their A1200.

The kit provides the owner with a somewhat cheap but effective PCMCIA controller which is easy to fit. However, connecting a drive is more of a challenge. The instructions on connection are fairly sparse and incorrect in certain areas.

The single page manual states that the ribbon cable must be fitted with the coloured edge on the right. This is incorrect and must actually be fitted with the coloured edge on the left – quite a drastic and time consuming mistake!

Gasteiner also provide an installer disk which will allow you to install the necessary software in order to allow your A1200 to communicate with your CD drive.

This includes necessary devices so that your Amiga can understand the CD drive device and the excellent JukeBox program which allows you to control music CDs with great ease.

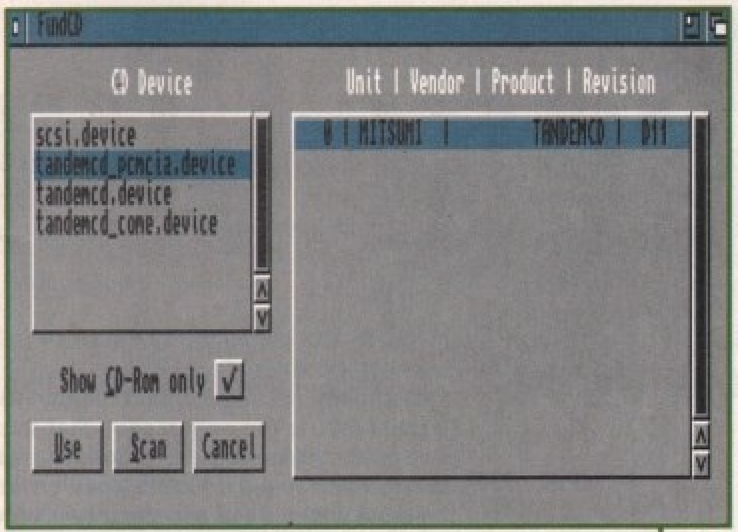
Obviously, any music CDs will not be able to be diverted through the A1200 and must be connected to an amplifier or stereo via the headphone socket on the particular CD drive you are using.

Using the JukeBox program you can play, pause, forward, rewind, search for specific tracks and shuffle tracks – in fact, all the things you can do with a professional personal CD player.

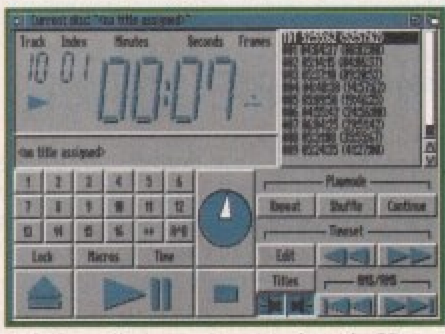
Considering the poor documentation, the actual installer software is very easy to use and contains all the programs you will need in order to get your CD drive up and running.

The main program is called FindCD and automatically searches for a suitable CD drive. The user has to do very little as the program performs all the difficult setting up procedures itself.

So what is the major advantage of having a CD drive connected to an A1200? Certainly the most important advantage is the ability to access large amounts of data without the restrictions of a hard drive or more importantly a floppy disk. Files that take up large amounts of storage space such as compugraphic fonts, clipart, Jpeg images, textures and 3D objects can all be accessed in great numbers from CD.



The FindCD program supplied with the CD1200 Controller takes the strain when setting up communication between your A1200 and the hardware



JukeBox allows you to control music CDs with the same flexibility you would find with a dedicated personal CD player

Musicians also benefit considerably from the storage capacity of CD as sound samples, one of the most storage-hungry file types around, can easily be fitted onto CD in vast amounts and of a high quality.

However, if you want to power the drive you will need to purchase a standard power supply. These can be found in most hard drive kits although they can be bought separately from most reputable electrical warehouses. Performance wise, the PCMCIA adapter is fairly slow, mainly due to the 16-bit architecture, but it is adequate for most users.

As for software, there is a wealth of PD disks that offer a wide selection of programs and utilities on a single CD. Unfortunately, most of these disks are poorly put together and in tests carried out, many of the programs crashed when run.

CD32 also offers a great deal of software, although any that rely on the internal hardware specific to CD32 will not work. There is no auto boot option for disks, so running games can prove a problem.

Users will need to study startup-sequences as it is necessary to run the contents of game disks via Workbench. This could cause problems for those A1200 owners not totally proficient with AmigaDOS.

The fact that the disks do not auto boot means that the contents of game disks can be easily accessed and copied to a hard drive. To test this we managed to install Body Blows CD32 onto a hard drive.

It did take up 14Mb but it ran successfully without the need for the CD. Obviously, we deleted it immediately.



There are plenty of CD PD disks available. Unfortunately, most are poorly compiled and crash regularly

Verdict

The bottom line here is whether or not it is worth forking out £69 for the Controller and an extra £150-£250 for a compatible CD drive. There really isn't enough Amiga application software on CD and the material that is available isn't of a great quality.

The fact that you can now buy a CD32 with software for only £299.99 really doesn't make the purchase of an A1200 CD drive set-up a financially sound investment – not at the moment anyway.

If an A1200 CD drive is something you definitely want, it would probably be wiser to wait for the Zappo Smart Drive from ZCL as it promises the compatibility of the CD1200 Controller plus an external power supply, all for the price of £199.99.

The Zappo also uses software to emulate the Planar chip which should give A1200 owners total access to all CD32 software, something the CD1200 Controller doesn't offer.

The bottom line

Product: CD1200 Controller
Supplier: Gasteiner
Price: £69
Tel: 081-345 6000

Ease of use	6
Implementation	7
Value for money	6
Overall	6

How Swede it

star letter

I'd like to utter a few words concerning Commodore and their future. Let's start with the basics, will there be one?

Looking abruptly away from Commodore's corporate capers – which are worrying indeed – what are they doing to keep the Amiga afloat? Their move of discontinuing their PC manufacturing was just a smoke screen wasn't it?

After all, they don't really need it when they've got the Amiga department – which can be set to making PowerPCs running WindowsNT – do they? At the very least, Apple kept System 7 as the main OS of their PowerMACs and left Windows as a software option.

"We're developing a chip of our own" Mr. Pleasance blurted – ha! I'll bet you whatever you've got, CBM's thrown a few nickels into Intel's and IBM's joint PowerPC project. That would certainly fit in with the "other well known companies" he spoke of.

So, when the new Power Amiga arrives next spring, it looks like Commodore's about to loose at least one user.

I don't want a PC and I never wanted one. Tell you what, if CBM's dropping the Amiga OS and all the other things that make the Amiga unique and the greatest – if overpriced in the higher range – all-round computer ever built, why not let me take care of the bits they abandoned, I'll do it, no charge.

As far as the Amiga's future is concerned there's still no fresh news at this stage – check the news pages for late breaking info.

But essentially the ball is in the buyers court. In my opinion the best possible outcome would be for the new owners to licence manufacture of the Amiga to anyone willing to subscribe to a franchise deal.

That way development could continue courtesy of the revenue generated, the word would be spread far and wide, third-party developers would be inspired, and the machine would finally be given the opportunity that the PC has enjoyed since day one.

The ability for anyone with the means to build PCs is the only reason that this particular technological dinosaur has attained and maintained its position as the most widespread computer platform on the planet.

As for your concerns about Windows NT, I think you're slightly confused.



According to our sources, Windows NT is going to be an option and not a complete replacement for the Amiga's own OS.

As for your hatred of other platforms, frankly I think you're being a little naive. As Britain may discover at its cost, European uninaturalism isn't a viable option in a rapidly shrinking world – and the same is true in the microcosm of the computer industry.

The one thing that's kept the Amiga in the minor leagues in a corporate sense has been it's inability to assimilate easily into big business. If adding support for additional operating systems can remove this particular obstacle it can only be a good thing.

A readers opinion

Concerning the new layout; so you've replaced the coloured boxes with coloured frames and added a few connecting lines (would you believe, I first thought that you'd included an electronics CAD package on the disk?) Fine with me, but why have you ditched a timeless logo for a definitely mid-80s one?

As for the masthead I'm afraid it's a classic case of taste, you don't like it, most people do, that's life! Democracy in action.

However it's worth putting the question of design into context. The entire redesign of Amiga Computing was achieved in less than a month. Something which in my opinion was a near miracle.

Personally I think the man responsible, namely Tym Lecky – our resident art editor – can't be praised highly enough. I suggest you glance around the magazine and count the number of unique design elements – the ESP logo being a classic example – then ask yourself was this petty criticism really justified.

Annoying adverts

I know that advertising makes a major component of the stuff that flows through a magazine's veins, but do you really want any part with people whose ads say things like:

"Women should stay in the kitchen" – and here's a manual on how to get 'em back in there. "How to get a one night stand." "Better get some muscles kid" or "Hey, get hold of our totally opaque shades, with flashing lights on the inside – recommended by the Playboy magazine."

These dubious messages are obviously created by people who have stereotyped Amiga users as pimpled teenagers who say a prayer to plumber Mario every evening before hanging up their anoraks. I for one don't feel worthy of

Getting Blitzed?

I am writing this letter to you because I for one would like to see a tutorial on Blitz Basic 2 in your magazine.

Other magazines have had tutorials on Blitz Basic 2 but they were on how to make games. What about the other side of programming like application programs such as the one on last month's magazine PhoneIt.

I know there are a lot of readers besides me out there who would like to see a tutorial on applications.

Many would-be applications programmers have turned their noses up at Amos simply because it is not possible to write programs that communicate with the user through Intuition windows and gadgets.

During my attempts to master Amos it's become clear that all the books are geared towards putting games together. I feel I am the only one trying to develop applications.

Why are all books and mag tutorials on "How to put games together?"

Also, are there going to be any books on Blitz Basic 2?

K. Winspear, Hartlepool

Your prayers are answered. In this very issue we embark on the first of a six-part tutorial hosted by Mike Milne and dedicated to Blitz Basic 2. But perhaps more importantly, the new series is geared exclusively to the development of applications.

As for your Amos comments, it's true the language isn't particularly au fait with intuition. However, if you check out last month's Amos Insight you'll discover an add-on for Amos designed specifically to incorporate elements from intuition into Amos programs.

As for a third-party reference manual for Blitz Basic, I'm afraid the news isn't quite so good. As far as I'm aware there aren't any plans, however the program does have an official UK distributor who may be able to help. Contact Guildhall Leisure Services on: 0302 890000.

t is.....

having such propaganda aimed towards me.

Basically I couldn't agree more. But to be honest there's little that can be done from the editorial standpoint.

During my time with the magazine the editorial content has always been guarded fiercely and has never succumbed to pressure from advertisers.

As a result the magazine has lost a lot of revenue in the form of ads and promotions. With this in mind, it's hardly fair or correct for editorial to suddenly start dictating to the advertising department.

Censorship isn't something to approach lightly, regardless of the moral or intellectual arguments. A possible answer would be to abandon our principles and adopt an advertorial approach to fill the pages.

But that ain't going to happen. So I'm afraid you'll have to suffer the Arthur Daley's until they realise not all Amiga users are pre-pubescent sexists.

Full of compliments

During the last month I have dealt with two "advertisers" in your excellent magazine; Deltrax PD and Mr J Pritchard (author of Epochmaster).

Both responded by return of post and in both I also had to seek further help which was an equally speedy and helpful service.

If you have any spare room in your mags, I'd be grateful if you would publicly praise these two.

Mr WJ Hill, Somerset

We always have space for the occasional bit of praise – especially if it's directed towards an advertiser. Our usual mail in this area tends to be less than complimentary.

Freebie or not freebie.

About the "full price packages" you include. I can see two options: either leave them out completely, or do so for a couple of months at a time and save up.

You see, we don't really need crappy, second, or even third-rate software like Fusion paint or Cinemorph. It's clear to all of us – or so I hope – that CoverDisk "freebies" are just a way to squeeze the last drops of juice out of an obsolete or vastly inferior piece of software.

I can but imagine how many sales GVP lost to ASDG in the morphing combat, their effort was truly pathetic and rather comparable with VMorph – written in Amos. Admittedly there have been many gems; Maxiplan4, SBase, Protext and Bars&Pipes2Jr spring to mind.

This is what we want. Even if these two are old versions (no I don't include B&P there) and the upgrade offers usually available make less than a difference from full price, it's too bad the save-up option is unrealistic.

Truly, the publishers aren't likely to let go of their premium software, no matter what you offer them, but it would certainly have been a jolly one.

This leaves us with dropping the "freebies", or carrying on like you've done so far – most likely, since you've got a reader's survey to lean back on. But at least do me one favour. Stop lavishing lousy software with astounding superlatives, praising them and rising them to the skies, stop printing what they sold 13 years ago and please, once you've had say a word processor on the disk, don't come later with another one which is of the same, or even lower standard.

Jonny Johansson, Sweden

In reference to your CoverDisk queries, I'd tend to agree. In an ideal world we'd always bring you the latest and best software. But alas fierce competition and the availability of suitable software doesn't always make it possible.

However your opinion does raise an interesting point. Firstly commercial CoverDisks are killing the Amiga – there's no argument there. Ideally we'd abandon the practise entirely and return to strictly PD and Shareware.

In an attempt to do exactly that, our ex-editor Stevie Kennedy sent an open letter to all our competitors asking for a moratorium on commercial software. Needless to say the response wasn't exactly enthusiastic – the reason being the masonry attitude of people like yourself.

The cause of occasional crap CoverDisks across all the Amiga magazines is punter pressure, and an almost complete lack of reader loyalty from the majority of the buying public.

If we dropped our commercial software I can guarantee Amiga Computing would be transformed from one of the best-selling Amiga magazines to the worst almost overnight.

OK, so you like getting something for nothing – who doesn't – but if this madness continues you'll get more and more golden oldies to run on a machine that nobody can be bothered developing for – after all what's the point the markets flooded right!

I hope you like this months Scroller II CoverDisk – it should completely scupper the market for video titlers for quite some time..

Got something to say through the pages of AC? Ezra Surf is our mailman, dedicated to reading your letters and selecting the most interesting for publication. Drop him a line at:

Ezra Surf's Postbag, Amiga Computing Adlington Park, Macclesfield SK10 4NP

Please don't enclose saes as Ezra just hasn't got enough paper to reply personally. He might also have to shorten your letters, so don't be offended if you end up getting the chop.

Code loading

I am trying to follow the tutorial for assembler by Mark Jackson, but I am not quite sure what it is I am supposed to do.

Firstly, do I print the source code from the cover disk then type it in to the assembler that I managed to get hold of at the start of this tutorial, or can I load the source code from the coverdisk directly into my assembler? I have tried this but I just get a lot of jumbled letters.

Secondly, where is the source code located on the CoverDisk of June 94 issue?

And for something completely different, the new look mag. My May issue came with pages 99 to 130 upside down and back to front. Now that's what I call a new look!

Mr G Wood, Cheshire

As for you source code problems there's no reason why you shouldn't be able to load the code into the assembler direct from disk – that's why it's there.

However, if you're printing the code first there could be problems. Like any programming language syntax is everything, and if the code is being reformatted prior to printing there's a good chance the syntax is being altered and the subsequent program corrupted. Now for a mixture of good and bad news. The good news is that you shouldn't have any more problems with Mark Jackson's tutorial – and now for the bad news – as it's being discontinued.

The reason for this rather drastic step has been the unreliability of Mr Jackson. Although we would love to continue the series Mark has already missed one issue entirely and has proved impossible to contact ever since.

However, now for the really good news. As a replacement for the assembler column, Paul Overaa kicks off a six part Devpac tutorial.

Unlike Mr Jackson, Paul is a professional journalist and programmer who's already published a variety of programming reference manuals through Bruce Smith Books.

As a result you couldn't be in safer hands. And better still, Paul has agreed to supply additional info boxes which should enable the tutorial and source code to be used on a variety of assemblers and not just Devpac.

As for the unique design concept of your particular copy, I'm afraid that's something of a mystery. If anyone else has suffered the same problem please get in touch – it could be time to have a word with the printers.

WE MUST BE MAD !!!

AMAZING OFFERS ON 3.5" DSDD DISKS

25X3.5" DSDD 135tpi DISKS	£8.95
50X3.5" DSDD 135tpi DISKS	£16.45
100X3.5" DSDD 135tpi DISKS	£31.95
200X3.5" DSDD 135tpi DISKS	£59.95
300X3.5" DSDD 135tpi DISKS	£86.95

ALL DISKS INCLUDE VAT AND COME COMPLETE WITH LABELS
CERTIFIED 100% ERROR FREE 2 FOR 1 GUARANTEE

SPECIAL OFFER

200X 3.5" DSDD DISKS
+2X 100 CAP. BOXES **£67.95**

SPECIAL OFFER A1200 USERS ONLY

SYNDICATE	£12.95
CHAOS ENGINE	£12.95
NICK FALDO'S GOLF	£9.95
PINBALL FANTASIES	£9.95

ONLY WHILE STOCKS LAST

DISK STORAGE BOXES

OUR FLIP TOP STORAGE BOXES ARE OF A HIGH QUALITY ANTI-STATIC DESIGN AND COME COMPLETE WITH LOCK, TWO KEYS AND AMPLE DIVIDERS (EXCEPT THE 10 AND 20 CAPACITY BOXES WHICH ARE NOT LOCKABLE).

3.5" X 100 CAPACITY BOX	£4.75
3.5" X 50 CAPACITY BOX	£3.50
3.5" X 20 CAPACITY BOX	£2.50
3.5" X 10 CAPACITY BOX	£0.95

BANX TYPE STORAGE BOX

THIS VERY POPULAR DRAWER STYLE BOX IS IDEAL FOR STACKING. BOXES CAN BE LINKED TOGETHER HORIZONTALLY AND VERTICALLY TO GIVE LARGE AMOUNTS OF STORAGE IN LIMITED SPACE. EACH BOX HOLDS 90 DISKS AND COMES WITH KEYS AND DIVIDERS

ONLY £7.95 each.

200 CAPACITY DRAWER TYPE **£12.95**

GENERAL ACCESSORIES

QUALITY MOUSE MAT	£2.50
MOUSE POCKET	£1.50
3.5" HEAD CLEANING DISK	£1.95
AMIGA EXTERNAL DISK DRIVE	£54.95
AMIGA REPLACEMENT MOUSE	£12.95
AMIGA A500 DUST COVER	£2.95
AMIGA A600 DUST COVER	£2.95
AMIGA A1200 DUST COVER	£2.95

SPECIAL OFFER ACCESSORY PACK

MOUSE MAT, MOUSE POCKET, CLEANING DISK, DUST COVER **£7.50**
(PLEASE STATE A500, A600 OR A1200)

OTHER ACCESSORIES

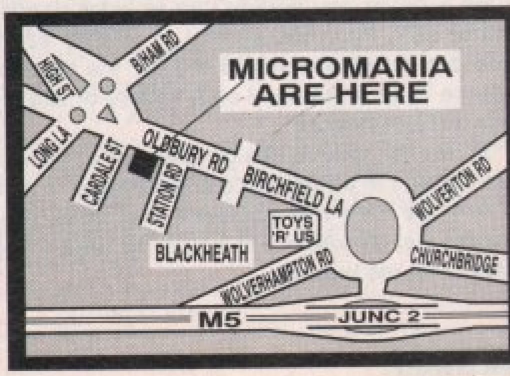
AMIGA TO SCART CABLE	£12.95
JOYSTICK EXT. CABLE	£4.95
ROBOSHIFT MSE/JSTICK SWITCH	£12.95
AMIGA NULL MODEM CABLE	£9.95
MSE/JSTICK TWIN EXTENDERS	£5.95
AMIGA ANALOGUE J/STICK AD.	£5.95
A500 REPLACEMENT MODULATOR	£39.95
AMIGA STEREO SPEAKERS	£17.95
AMIGA PRO STEREO SPEAKERS	£54.95

THIS MONTHS SPECIAL OFFERS

SKIDMARKS	£17.95
MONKEY ISLAND 2	£24.94
WORDWORTH V3	£59.95
ZOOL 2	£14.95
COMBAT AIR PATROL	£17.95
WIZ N LIZ	£14.95
MICRO MACHINES	£17.95
CANNON FODDER	£19.95

ONLY WHILE STOCKS LAST - ONLY WHILE STOCKS LAST

VISIT OUR SHOP WHERE THESE AND MANY MORE PRODUCTS ARE ON DISPLAY ALL AT LOW PRICES



PLEASE ADD £3.50 FOR P&P
(UK MAINLAND ONLY - OTHER DESTINATIONS WILL BE CHARGED AT COST)
CHEQUES, P/O'S TO:-

MICROMANIA Dept AMP
74 OLDBURY ROAD, ROWLEY REGIS,
WARLEY, WEST MIDLANDS B65 0JS
TEL: 021 559 1002

Access VISA

All offers subject to availability. All prices subject to change without notice. E.& O.E.

PD DROME

DISKS	EACH
1-10	0.90p
11-20	0.85p
21-40	0.80p
41+	0.75p
POST	0.75p

Please make POs, Cheques payable to: PD DROME

PD DROME,
DEPT AMC,
32 MEADOW TERRACE,
HERRINGTON BURN,
HOUGHTON-LE-SPRING,
TYNE & WEAR DH4 7AF

MON to SAT
from 9am to 5.30pm
Tel: 091-584 4899

BUY 10+ DISKS AND GET A 10 DISK BOX HOLDER FREE!
BUY 20+ DISKS, NOW YOU CAN CHOOSE A MOUSE MAT INSTEAD!
BUY 25+ DISKS, NOW YOU CAN CHOOSE A HEAD CLEANER INSTEAD!
BUY 30+ DISKS, NOW YOU CAN CHOOSE A DUST COVER INSTEAD!*
BUY 50+ DISKS, NOW YOU CAN CHOOSE A 100 CAP. DISK BOX INSTEAD!
*CHOOSE FOR A500/600/1200

ACCESSORIES

10 CAP. DISK BOX	£1.00	(+50p P&P)
6MM MOUSE MAT	£2.00	(+50p P&P)
DISK HEAD CLEANER	£2.25	(+50p P&P)
DUST COVER (500/600/1200)	£2.50	(+50p P&P)
100 CAP. DISK BOX	£3.75	(+ 50p P&P)
25 BLANK DISKS	£12.50 OR 50p each	ADD £1 P&P
26-35 BLANK DISKS	£0.45p each	ADD £1 P&P
36+ BLANK DISKS	£0.40p each	ADD £1 P&P

CATALOGUE DISK IS 75p OR 3 FIRST CLASS STAMPS . . .
WE CAN GET ANY PD ADVERTISED IN THIS MAGAZINE
LOCAL ENQUIRIES, PLEASE PHONE FIRST IF PICKING UP

(*) No of DISKS
(WB2+) FOR WORKBENCH V2.0 AND UPWARDS ONLY

IN THIS ADVERT ALL TITLES WORK ON ALL AMIGAS UNLESS OTHERWISE STATED

UTILITIES

U281 MAGNUM 1.7 Very popular disk magazine creator.
U259 KICKSTART 1.3 Allows A1200/A600 to run A500 software that wouldn't normally run.
U265 TELESCROLL VIDEO TITLER Wipes, fades, scrolls text etc.
U256 D-COPY 3.1 Very powerful disk copier/formatter.
U209 TEXT ENGINE 4.1 The best PD word processor!
U282 VMORPH Excellent util. allows morph/warp animation.
U277 POOLS PREDITOR.
U264 AMIPUNT Racehorse - predict winner!
U222 VIRUS CHECKER 6.41.
U283 SPIDERSOFT UTILITIES Garden designing utils.
U266 600 BUSINESS LETTERS Letters professionally done for all occasions ready to go.
U284 MING-SHU CHINESE ASTROLOG Create horoscopes in seconds.
U285-7 A64 v3.0 (3) Latest CBM64 emulator with a disk full of utilities.
U288 RE-ORG v3.11.
U267 FRENCH VOCAB Get to grips with the language with this excellent disk.
U289 SUPERDARK (WB2+) Great screen blankers!
U290 RELOKICK 1.4 Excellent degrader for A600/1200s.
U291 AMIGAFAX 1.34 Good fax software.
U270 FORMS UNLIMITED Excellent forms/invoice designer + prints.
U269 INVOICE MASTER Brilliant for creating and printing invoices.
U274 EASYCALC+ The best PD spreadsheet. Commercial quality! (WB2+).
U275 EASYCALC This excellent spreadsheet for A500.
U276 EPOCH 3c Excellent Calendar/Diary creator.
U190 MESSY 2 Transfer files to/from Amiga DOS and PC MSDOS files.
U195 SIDV2.01 Excellent alternative to your workbench.
U263 LOCKPICK 2 Removes up to 450 game protections!
U069 MAGNETIC PAGES Great disk magazine creator.
U292 LAST WILL AND TESTAMENT For the pessimist.
U273 FREE COPY 1.8 Similar to Lock Pick 2.
U293 BBASE 3 Powerful database.
U219 EDWORD PRO 4 Excellent word processor.
U021 MENU MASTER 3 Excellent util. to make menus. Easy to use.
U295 DOC DUMP Compress text to print.
U294 PARBENCH Link up 2 Amigas to control/communicate.
U231 VIEWTEK 2 (WB2+) Great multi-viewer supports IFF, GIF, JPEG etc.
U241 PPSHOW 4 Excellent multiviewer (can view compressed files).
U313 UNDELETE Get back deleted files!
U296 MUSICBASE Excellent database. Edits include tracktime, running time, artist etc.
U297 SOCCER LEAGUE Footy database. Lots of statistics can be entered.
U298 THE ANIMATION CONSTRUCTION KIT
U299 ADVENTURE GAME CREATOR
U257 DISK SALVAGE 2 Fixes corrupt data.
U300 NCOMM 3 Latest version of very popular comms package.
U301 AMIGA FOR Great desktop publishing package.
U27 GRAPH PRO Create/draw graphs.
U302 NUMPAD Gives A600 a number pad.
U001 ULTIMATE ICON MAKER
U303 HARD DISK STACKER (WB2+) Increases up to 50% HD Space!
U279 PAY ADVICE Keeps tracks of N.I., tax, pay etc.
U066 M-CAD Computer Aid Design.
U304 MINIMORPH
U305 DART MACHINE Scorer.
U308 AZ SPELL Huge spell checker.
U105 CROSSWORD DESIGNER
U077 A-GENE Family tree.
U306 GUITAR TUNE
U315 BUSINESS CARD MAKER
U309 GRINGER Excellent gfx viewer.
U314 BON APPETIT Recipe database.
U163 WINEMAKER Great database!
U268 AMIBASE PRO 2 Excellent database package.
U280 TSMORPH 3 Latest morphing programs.
U221 LABEL MAKER
U244 ENVELOPE PRINTER
U307 X PASSWORD Protects disks.
U040 GHOST WRITER Put messages on back of disks easily.
U310 FAST INTRO MAKER (WB2+) Fantastic intro maker.
U057 DOPE INTRO MAKER Similar to the two above.
U110 203 UTILITIES Very varied!

GAMES

G157 ORK ATTACK Drop rocks on Orks. Quite fun.
G147 EXTERNAL ROME. Great strategy game.
G024 LARN Excellent text adventure.
G167 CASH FRUIT Blummin' good fruit machine game.
G137 COIN DROP Great fruit machine.
G080 MEGABALL 2.1 A classic bat and ball (Arkanoid) game.
C148-9 HIGH OCTANE (2) Good overhead racing.
G124 DRAGON TILES Stunningly good, remove the tiles (Shanghai) game.
G170 CAPT. BONUS Good rip off of Prince of Persia.
G158 LOADSAMONEY Excellent fruit machine.
G161 MOIRA 5.4 Huge role playing game!
G159 QUIZ MASTER
G169 SUPER PACMAN The best version!
G010 WIZZY'S QUEST
G160 KLAWS THE CAT Very nice looking platformer.
G162 TOP OF THE LEAGUE Great footy management game.
G163 TOADA Very addictive frogger clone.
G164 WORLD DARTS CHAMPION Brilliant!
G166 DRIVING MANIACS Astounding 3D racing game!
G131 STRIKE Excellent 10-pin bowling game!
G165 DELUXE GALAGA
G151 HYPERDRIVE Great 1 or 2 players futuristic racing game.
G156 TETRIS PRO Possibly the best TETRIS clone.
G168 CUBULUS Maddening addictive puzzler.
G178 TRAILBLAZER Exact replica of the CBM64 classic!
G180 SCORCHED TANKS One of the best 1 on 1 blasters.
G152-3 STARBASE 13 (2) One of the best PDs around. Like Monkey Island (point 'n' click).
G181-2 18 HOLE GOLF (2) Great Golf game.
G130 G. PRIX MANAGER
G183 KUNG FU CHARLIE
G101 SCRABBLE
G018-9 STAR TREK (2)
G184 E-TYPE Great asteroidsy game.
G177 FLEUCH Thrust clone.
G145 PROKER Brill poker game.
G185 MONACO Excellent racing game.
G186 V-CHESS
G173 REVERSI 2 The best version.
G042 LCD GAMES 4 handheld games converted.
G187 POM POM GUNNER Op. Wolf style blaster.
G188 WAYNE'S WORLD PONG Lovely sound effects!
G189 WIBBLE...GIDDY Commercial quality!
G155 POPEYE Conversion of the CBM64 classic.
G129 CRICKET Simple but fun cricket game.
G144 DYNAMITE WARS 4 player clone of DYNABLASTAR! Excellent!
G128 DONKEY KONG Classic CBM64 conversion.
G059 HOLY GRAIL A classic text adventure game.
G190 BLACK DAWN Excellent D&D game. Highly rated in mags.
G191 AVATRIS 3 Player Tetris!
G192 BOX Text adventure from author of Life and Death.
G171 AZTEC CHALLENGE Excellent CBM64 conversion of one of my fares!
G193-4 TALISMAN (2) Huge icon driven adventure - 2Mb.
G125 CRAZY SUE 2 Excellent platforming game.
G195 RAID 4 Excellent! Like SWIV.
G035 WET BEAVER Tennis.
G009 CAVE RUNNER+ The best Boulder-dash clone!
G172 SUPER TWINTRIS One of the best 2 player Tetris games!
G109 SUPER SKODA CHALLENGE Overhead 4 player racing!
G078 LLAMATRON One of the best blasters! By Jeff Minter.
G106 EXTREME VIOLENCE Fun 2 player hunt and shoot.
G110 MEGASQUAD One of the best 1 on 1 blasters!
G150 METRO Train set game.
G079 DR. MARIO The classic clone of Tetris, with a twist.
G174 ACT OF WAR 1.4 Excellent strategy/shoot game. Like Laser Squad.
G175 C-ROBOTS Program robots to fight each other.
G075 DOWNHILL CHALLENGE Great skiing challenge.
G023 TOMTESPELLET Nice Speedball clone - not 1200.
G196 MONOPOLY
G143 DOODY
G197 ZULATORS! V. funny text adventure.
G037 JETMAN It's a Jetpac clone.
G123 SON OF BLAGGER Conversion of CBM64's classic platformer (identical).
G198-9 MR MEN OLYMPICS (2) An amazing sports game. Great for the kids.
G179 BOMB JACKY Good Bomb Jack type game.
G176 LEMMINGS 2 HD INSTALLER
G108 ROAD TO HELL Excellent overhead (1/2 players) racing game – 2Mb.
G203 NOSTALGIUM The CBM64's Uridium!

DEMOS

D231 FAIRLIGHT 242
D232 SANITY ARTE Fantastic demo!
D233-4 NINE FINGERS (2) Follow up to State of the Art!
D235 LEMONS GROOVY
D236 EXPLICIT 2
D237 WORLD OF COMMODORE
D194-9 PINK FLOYD: THE WALL (6) A total classic! – 2 Drives, not A1200.
D174 RAY OF HOPE 2 Georgeous graphics – not A600/A1200.
D238 VOYAGE
D049 BUDBRAIN 2 – not A600/A1200.
D239 FULL MOON Best demo of the year so far?
D240 EMPTY HEAD
D241-2 ORIGIN (2)
D243 PLANET GROOVE
D244 FRACTAL EXPERIENCE
D245-6 MAX. OVERDRIVE
D247 POINT OF SALE
D248 RETINA

A1200 ONLY UTILS

U316 SLEEPLESS NIGHTS Good collection of utils.
U317 FREAKS Another good collection.
U318 PC TASK V2.03 PC emulator.
U260 A1200 ICONS
U237 AGA 1 Good collection of utils.
U238 AGA 3 Another collection.
U278 LYAPUNOVIA Excellent fractal generator.
U319 WINDBLEND Great fractal generator.
U320 ANDY'S WB3.0 UTILS Good collection.
U240 AKTION REPLAY PRO The disk manipulator(?) on floppy.
U321 MAGIC WB (Also on WB 2.0).
U233 MANDELMANIA Mandel's man.

EDUCATION

E016 WORLD GEOGRAPHY
E017 THE ATOM - 1.5Mb + 2 drives.
U229 LITTLE TRAVELLER
E018 STEAM ENGINE
E019 PETROL ENGINE
E015 LEARN SIGN LANGUAGE
E010 TYPING TUTOR
E020 BIORYTHMS
E021 HOW EARTH BEGAN
E022 SINGALONG NURSERY RHYMES
E023 CHILDREN'S SONGS
E024-6 ELECTRONIC WORLD (3) New and Old Testament.
E027 AMERICAN FOOTBALL
E028 HIGHWAY CODE TUTOR
E012 JAPANESE LANGUAGE TUTOR
E029 BACK TO SCHOOL 1 Three fun and simple learning progs.
E030 BACK TO SCHOOL 2 For the kids to learn from.
E031 OCTAMED TUTOR Learn how to use it properly.
E032 ASTRO 22 v 3.5S For the discerning astrologer.
E033-4 READ and LEARN 1 (2).

A1200 ONLY GAMES

9139 MEGABALL AGA The best version of the bat and ballers.
9142-3 MOTOROLA INVADERS (2) Excellent blaster.
G118-20 KLONDIKE (3) Georgeous gfx of Patience the card game.
G144 MAD FIGHTER Excellent streetfighter 2 clone.
G085 AGA TETRIS Inevitable really.
G145 GIGER TETRIS Alienesque gfx on this!
G084 BORON Great blaster.
G141 AIRPORT This fantastic game fixed to run on the A1200.
G126 UCHESS Excellent chess game (also WB20) - 4Mb.

A1200 ONLY SLIDESHOWS

S083 MAGIC FACTORY 2 Excellent sci-fi pix.
S079-82 WORLD OF MANGA (4) Amazing quality.
S084 FERRARI
S085-6 MINI AGA (2)
S087 NIGHTBREED
S088 NIGHTBREED 2

GLAMOUR

B001-2 BODYSHOP 4 AGA (2)
B003-4 BODYSHOP 5 AGA (2)
B005-6 FIT CHIX 3 AGA (2)
B007-8 FIT CHIX 5 AGA (2)
B009 CINDY CRAWFORD
B010 CINDY CRAWFORD 2
B012-3 BODYTALK (2)
B014 MADONNA
B015-6 ERIKA ELENIAK (2)
B017-8 FAMOUS REVEALED 1 (2)

SPECIAL PACKS

These special packs are priced with postage included!
These packs do not include the FREE gifts unless ordering with 10+ disks.

COMMS

NCOMM2, LHA + DMS, BBC SIMULATOR, PHONE DIRECTORY, TEXT + 3.0, AMIGA FAX, COMMS BEGINNERS GUIDE
5 DISKS = £4.25

BUSINESS PACK 1

TEXT ENGINE 4.1, AMIBASE PRO 2, EASYCALC(+) (state machine), AZ SPELL, TYPING TUTOR, PRINT + BUSINESS CARD MAKER, DIR UTIL.
8 DISKS = £6.75

BUSINESS PACK 2

FORMS UNLIMITED, INVOICE PRINTER, 600 BUSINESS LETTERS, LABEL PRINT, FILOFAX, TEXT + 3, HOUSE INVENTORY, AMIGA FOX DTP
8 DISKS = £6.75
★ BUY BOTH BUSINESS PACKS (16 DISKS) = £12.95

SPECTRUM PACK

SPECTRUM 1.7 EMULATOR + APPROX. 85 CLASSIC GAMES...
Underwurlde, Spy Hunter, Green Beret, Jet Set Willy, Saboteur, etc.
7 DISKS = £6.25
★ BUY FULL SET, APPROX. 188+ GAMES (14 DISKS) = £11.50

STARTER PACK

DUST COVER (A500/A600/A1200), MOUSE MAT, DISK HEAD CLEANER, 10 BLANK DISKS, 10 DISK BOX HOLDER, 5PD OR YOUR CHOICE ALL FOR £16.50.

F1 LICENCEWARE

Prices from £3.99 to £6.99
We are official F1 Licenceware distributors. Below are 18 exclusive F1 titles which can be ordered from us. A full listing of ALL F1 Licenceware products are in our catalogue. All titles work on A500(+)/A600/1200 unless otherwise stated.
Please remember to add 75p for P&P.

F1007 FORTRESS **2Mb Chip+ Only £3.99**
Rated 88% A. POWER (Jun 94).
Rated 90% THE ONE (Jun 94).
This is a war Arcade/strategy game based on the likes of MEGALOMANIA and POPULOUS, with excellent GFX, sound FX and an addiction level that will keep you glued to the monitor for simply yonks!
"...Absolute marvel to behold", said A. Action (May '94).
"...Graphics are gorgeous...I loved it," said The One (June '94).

F1006 BLACKBOARD v2.0 (2 disks) £4.99
Earlier version rated 88% CU Amiga. New version rate 90% Amiga Shopper.
"AGA owners get near 24-bit graphic manipulation...should be on your shelf if you are into graphics," said Amiga Shopper. BlackBoard is an image processor written specifically for the AGA chip-set machines, although BlackBoard will run on any Amiga with the following system. REQUIREMENTS: 2 floppy drives (or hard drive) and a minimum 1 meg of memory.

F1001 MAGNUM PRO £3.99
Earlier version received 93%
CU Amiga (Oct '93)
This is the final version of the acclaimed disk magazine creator with loads of NEW features. Amos source included to create your own interface!

F1002 Cricket Crazy £3.99
Reviewed in A. Power (Apr. '94) "Nearly as good as the commercial Cricket sims! Just about every aspect of cricket covered."
Cricket Crazy is the most advanced cricket simulation yet, combining arcade action and strategy in a mix of fun and friction that even non-cricket fans will enjoy. Humoungous amount of features!

F1003 Absolute Beginners' Guide to Amos (v2.1) £3.99
A.B.G.T.A. has been written with the complete novice in mind and introduces all the early commands every beginner needs to overcome. Loads of example progs ready to run (need Amos)... set up to print for Epson prints for easy printing of articles.

F1004 Super Fun £3.99
Super Fun contains four education programs for children in the range of 5-9 years. Great solve the sums games, make your own records using 750 different sounds, junior version of Mastermind with numbers and a prog which allows you to see any time-table from 1-99.

F1009 The Rainy Day Disk £3.99
The Rainy Day Disk is an excellent compilation of 5 children's educational programs. The recommended age range is for 4 to 8 year olds. Paint Box allows children to easily colour in one of ten pictures. Tiny Tunes has 10 popular nursery rhymes in a copy and play environment. Wordsearch - find the hidden words in each of ten different puzzles. Story Book - make your own pictures in this mini-art program.

F1010 Karate Master
"REQUIRES AT LEAST 1.5 MEG" £3.99
Karate Master has all the speed and variety of moves and excitement of the real sport. 1 or 2 players, 99 levels, timer on/off option, sub game every two levels + other features.
Reviewed in A. Action (Apr. '94) - "You should be impressed"
Reviewed in The One (May '94) - Rated 80%
Reviewed in A. Power (June '94) - Rated 4 out of 5 (80%)

F1012 Obliteratives £3.99
Obliteratives is an arcade skill game for 1 or 2 players. Create your own IFF screens to use as the play area!

F1013 THROUGH THE RED DOOR £3.99
Reviewed in CU AMIGA (May '94) - "Another great educational pack".
1 - Choose colour of objects in the playroom, countryside & seaside.
2 - Help Sarah find missing animals in the shop, garden and bedroom.
3 - Help to dress Sarah and Simon in the correct clothing.
4 - Find the objects beginning with the selected letter.

F1014 TOTS TIME £3.99
This one is mainly for the very young child up to four years old, has three programs.
1 - Press any key in alphabet views pictures relating to that letter.
2 - Click on a number to reveal a picture pertaining to that number.
3 - Click on a picture to hear a sound relating to it.

F1018 RELICS OF DELDRONEYE (4 DISKS) £6.99 **2Mb Chip only**
Reviewed in The One (Jun. '94) "Good a value as any of the big boy games" (Full price games), "Top stuff, buy it!" Rated 91%.
A mouse driven interactive adventure with great graphics, sound fx and animations. Contains brain numbing but logical puzzles, 64 colour gfx and around 100 locations. Like Monkey Island/Lure of Temptress.

F1019 Touch 'n Go £3.99
Reviewed in The One (Jun. '94) "As far as puzzle games go, this has everything you could want...features an excellent number of levels and layouts." Rated 87%
This is an excellent arcade/puzzle game which supports passwords, 100 levels, parallax scrolling and wicked backdrops, cool music and sound FX. Demo version appeared on The One cover disk June '94.

F1022 ASK ME ANOTHER £3.99
This disk gives tremendous value for money, it contains 20 individual learning modules that are both fun and cover a wide range of different learning techniques. This is intended for children aged 3 upwards. The modules are: Shapes, Time, Words, Adding, Colours, Homes, Money, Sequences, Matching + 11 others.

F1023 PICK AND STICK £3.99
This one is for children of up to six years old. Pick and Stick is a very simple, but fun, picture creator. The child can choose from 3 different settings: SEASIDE, FAMILY or UNDERWATER. The child then has around fifty different objects to PICK and STICK on the background picture to create their own scenes.

F1024 MATHS MONKEY £3.99
One of the best educational packs we have. This one is for approx. 7 to 12 year olds. Learning modules are:
1 - 32 clock/time questions of 4 different types.
2 - 24 questions covering addition, multiplication, subtraction and division.
3 - Different maps teaching the child to read coordinates, the child interacts with a ruler, measuring objects on a screen.
4 - How much is? Type in the value of...etc.
5 - An excellent way of graphically teaching fractions.

F1025 ART SCHOOL V1.1 (2 DISKS) £4.99
Don't be misled into thinking this is a kid's program, it is, but EVERYONE will love this awesome art package that is just bristling with original and innovative features. It can do everything you would expect from a commercial art package and plenty more besides! Buy this product now before the author realises he could be selling it at 30 quid a time. There are far too many features!

F1026 Take a Look at Europe £3.99
This is aimed at eleven year olds and upwards. The 6 modules are:
1 - Type in the name of each country (in Europe) the jet plane lands on.
2 - You are presented with a map of a country and its name, you must match this to one of the 24 capitals given.
3 - Name the ocean the whale is currently swimming in.
4 - Enter the name of the country whose flag is shown.
5 - Match the 25 currencies to the correct (map shown) country.
6 - Gives information on each European country in the form of: area, capital, currency, population and language.

Yet another mixed bag of computer worries comes under the surgeons knife in time for a speedy recovery



acas

AMIGA COMPUTING ADVICE SERVICE

Workbench worries

I am fairly new to computing and only recently bought myself an A1200 with a 64Mb hard drive. I am extremely pleased with the machine and am feverishly lapping up your AmigaDOS tutorial.

My hard drive is partitioned into two drives – Work: and DH0:. I have successfully installed Workbench 3 onto the Work: partition and am now busily installing games to DH0:

Everything was working beautifully up until two days ago when my Workbench kicked up an error requester displaying the following:

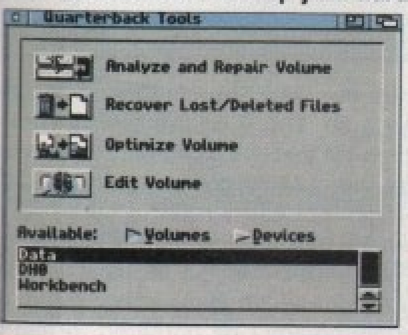
```
Error validating Workbench
Block 141423 used twice
```

The hard drive continues to whir for about another two minutes before stopping. I really don't know what has happened but fear I may have broken the hard drive. Is there anything I can do?

P White, Cambridge

I'm glad you are enjoying working with your Amiga and you needn't worry too much about the problem you have described as it is not permanent – provided you have the right software to correct it.

The program you really want is Quarterback Tools Deluxe from Central Coast Software. The is an incredible piece of software and has all the functions you will ever need in order to keep your hard drive healthy and functioning.



If you want more information on QTD you can call Meridian Distribution on 081-543 3500 who will only be too happy to help you. To avoid further problems such as validation errors, make sure when you are copying stuff to and from your hard drive that copying has finished before you eject the disk – the F.Disk light will go out when this has happened

Keep your hard drive and floppy disk healthy with Quarterback Tools Deluxe

Install incidents

I have an Amiga 1200 with a 4Mb RAM expansion, maths co-processor and 185Mb hard drive. I have successfully installed Heimdall 2 AGA onto a partition named DH2.

The game loads onto the first screen but when I move through to the next room I get the following message:

```
Unable to load the file: DH2:
Heimdall2/world/mid1.dat.
```

After this the screen goes blank and I get a guru message:

```
80000003 00280df0
```

Incidentally, I have checked with Directory Opus and the file in question has been installed.

A Bernascone, West Sussex

To test this problem I installed Heimdall 2 AGA on my own A1200 and although it crashed my Amiga after installation the game played okay. The problem you describe could be a clash with your maths co-processor and it may be wise removing this and trying the game again.

However, I find the AmigaDOS error report a little strange. Try checking the size of the mid1.dat file which should be 225056 bytes.

If all else fails your best bet is to send

Blitz blitzes out!

I noticed in the CoverDisk pages of a previous issue of *Amiga Computing* you were asking people if they could send in their votes as to whether a Blitz Basic 2 tutorial would be welcome. I have already sent my vote – yes!

I have had quite a few problems with Blitz and constantly find myself coming up against problems I can't seem to get round. The most frustrating problem at the moment is when combining old gadgets with the new GadTools. They seem to work fine at first but crash soon after.

The manual says you can combine the two together, so I can't be sure if this is an error in Blitz or a mistake being made by myself. If there's anyone who can help it would be greatly appreciated.

D Lavans, Cornwall

Do you want the good news or the bad news first? The good news is that the problem you have described is not a fault of your programming skills. The bad news is that it is a bug in Blitz Basic 2.

This language seems fraught with problems, a sad fact considering it is certainly the best Basic programming language available on the Amiga.

Acid Software are apparently having major problems with the differences between OS 2 and OS 3 and look likely to support only OS 3.0 AGA users in the near future. I'm not entirely convinced of these problems or that they would cause the kind of bugs Blitz users have had to endure.

The GadTools stuff was a major cock-up and there are quite a few bugs in this library as well as in other areas of Blitz. The only answer to your immediate problem is to avoid combining old gadgets and the GadTools in the same window. This means you won't be able to use ShapeGadgets either.

Sorry I can't be more helpful, but only Acid Software can clear up the bugs which doesn't seem very likely at present.



Blitz Basic 2, an excellent Basic programming language partially let down by bugs

Installation frustration

I have just finished writing a small program that allows users of Workbench 2 and above to select a find option in the Tools menu.

The user selects the find menu option and a requester appears asking for a file to locate. The user types in the file name, selects the device and clicks okay, at which point the program searches for a file with the same name as the one entered.

The program works perfectly and I want to release it into PD with an option to register for a newer version.

The program and necessary files are now on an auto-booting disk but I am considering a hard drive installer program so that hard drive users can copy the program with the minimal amount of fuss.

I would really like to use the official Commodore installer but don't know where I can get it and how I should use it. Please could you shed some light on this program.

J Dorin, Berks

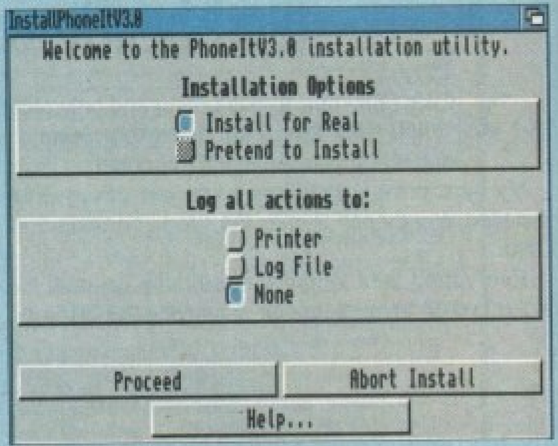
The Commodore installer is a wonderful program but is fairly difficult to learn how to use. The actual program is called Installer and you can find it easily enough in the C directory of our CoverDisks.

However, before you can use the program you must write a script file using the dedicated Installer language. This language is not easy to learn and is certainly not easy to debug, as it relies heavily on the use of parenthesis ().

Before you use the Installer you are requested to register with Commodore who will license you to use the product. We had to do this at *Amiga Computing* although we never received a reply. With the problems Commodore are having at the moment I would imagine no one would pick you up for using it without a license.

The best way to learn the language, if you haven't got a manual, is to hack through other developer's Installer script files. You should be able to produce a fairly competent hard drive installer simply by editing their scripts.

I may even consider running a tutorial explaining the Installer language so that readers can become proficient with it in its entirety. I hope this has been of some help.



Installing programs couldn't be easier using the official Commodore Installer but learning the language isn't easy

your disks back to Core Design who will send you a new set. You can then re-install Heimdall 2 and see if the problem you describe re-occurs. If it does happen again write in and I will call Core Design to see if they can shed any light on the problem.

You got problems too? Then drop a line to Amiga Computing Advice Service, Europa House, Adlington Park, Macclesfield SK10 4NP and we'll move heaven and earth to help in these columns. But sorry, we cannot reply personally, so save those SAEs

Surf defector

I know this letter should really have been addressed to Ezra Surf but I am desperate for someone to help with a problem – bugged Amiga games.

I eagerly awaited the release of Beneath a Steel Sky from Virgin and as soon as it hit the store shelves I rushed out and bought it. Imagine my horror when I realised it crashes every five minutes. This game is rendered totally useless to me due to the constant crashing.

I know I can save the game, but by the time I have switched my A1200HD off and then on again, booted the hard drive, located the BASK drawer and loaded the program my enthusiasm is severely dented, especially as I know it will crash in another five minutes.

I also have Brian the Lion AGA which I have installed on my hard drive after much frustration, but when I load it there is no Brian graphic – he's gone.

I have hardly touched this game and feel very cheated by gangster software houses.

I am desperate for a solution to these problems. The software houses fobbed me off with a load of pre-written crap so I am writing to you to see if you have any ideas.

K Leemer, Cardiff

I'm sorry you have had such a poor response from Virgin and Psygnosis but I'm not really surprised. It surprises me that so little was mentioned about the bugs in Beneath a Steel Sky because on an A1200 the game is a total waste of time and money. The problem you described is the same problem I had with my copy and indeed the System copy.

I'm afraid there isn't a solution, but in my opinion I would be more wary of Virgin products in the future.

I do have some good news regarding Brian the Lion though. Only a few days ago a Mr Tim Hart sent me a disk on which he and his unemployed programmer friend (maybe he should be writing the games) had written a patch for the missing Brian sprite.

Tim states that the problem is due to Fast Ram which proves that Psygnosis simply couldn't be bothered to test this product.

If you send a disk to ACAS marked Brian Fix, with Tim's permission I will send you a copy. My advice is, be wary of Psygnosis products as well as Virgin.

Arm yourself!

A friend of mine recently lost a lot of software due to a virus that infected his disks and damaged them. He managed to get hold of Virus Checker on your CoverDisk and subsequently destroyed all the viruses he could at the expense of many commercial games.

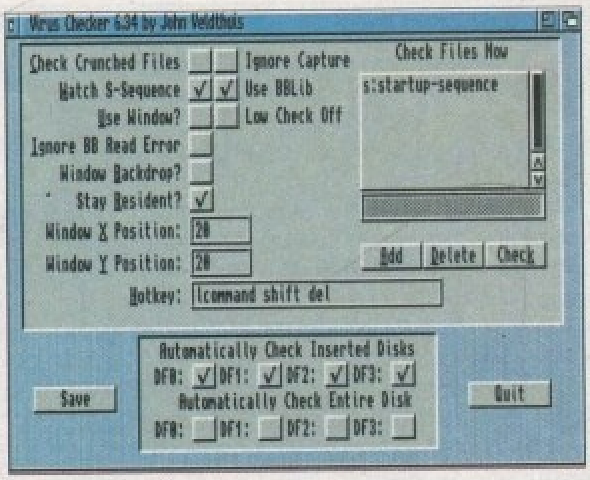
He can't understand how the virus infected his disks because he always keeps them write protected. Can a virus infect a write protected disk?

M McCauley, Glasgow

There are only a few viruses I know that will write themselves to a copy protected disk. However, there are no viruses that can attach to a write protected disk, therefore your friend can't have protected all his disks.

I can't stress how important it is for Amiga owners to arm themselves with a suitable Virus Checker – John Veldthuis' being the most up-to-date checker there is.

There are fewer viruses being written these days due to the excellent virus killer programs, but there are still a lot of ancient disks floating around and these may contain viruses. You have been warned – arm yourself!



John Veldthuis' Virus Checker is the Amiga's premiere virus killer. It comes with an extensive virus database

Subscribe to the top value



Subscribing to *Amiga Computing* means you reap all the benefits of the exclusive treatment you'll receive as a subscriber, and you get to choose one of these great *free gifts* as well

So, you're wondering, what exactly is this exclusive treatment? It's a whole range of things that ensure you get your copy of *Amiga Computing* without any fuss or effort. As a subscriber there are no worries about remembering when the next issue is on sale. You can watch your favourite soap or have a lie in, because you won't be scrambling down to the newsagents. You'll be content in the knowledge that you are part of the select, because your copy of *Amiga Computing* is reserved for you personally. Before the masses have even thought about their monthly expedition to the shops you'll have had your copy for a few days, delivered direct to your door, postage free.

Not only do you already know the latest news and gossip, but you've also had first pick of the bargains on offer. Subscribing by direct debit means you save money and get an extra issue each year.

Direct Debit subscriptio
ONLY £8.49

SUBSCRIPTION ORDER FORM

Choose either a 12 issue or a quarterly subscription, which will start from the earliest possible issue

● **I would like the following 12 issue subscription:**

New	Renewal		
☐ 9642	☐ 9643	UK Subscription	£39.95
☐ 9644	☐ 9645	EU Subscription	£54.95
☐ 9646	☐ 9647	Rest of World Subscription	£74.95
☐	☐	Canada/USA *	$98

● I wish to pay by:

☐ Cheque/Eurocheque/Postal Order payable to Europress Publications Ltd

☐ Credit Card (Visa/Access/Barclaycard/Mastercard/Eurocard/Connect Expiry Date ____ / ____

Card No ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

● ***Tick which free gift/special offer you want (not available to world subscribers)***

9576 ☐ Two free issues and a magazine binder
9584 ☐ Alpha Data Mega Mouse and Logic 3 mouse mat
9587 ☐ Zool II – all machines
9587 ☐ Zool II – A1200 enhanced version
9586 ☐ Mastering Amiga beginners *(Add £3.95 to the cost of your subscription)*
9589 ☐ Amiga Disks & Drives Insider Guide*
9590 ☐ Amiga A to Z of Workbench 3 Insider Guide*
9591 ☐ Amiga Assembler Insider Guide* *(*Add £1 to the cost of your subscription)*

If you are paying by direct debit please pay additional amounts by cheque or credit card.

** Canada & USA subscribers send to: Europress (North America), Unit 14, Bysham Drive, Woodstock, Ontario, NT4 1P1, Canada. Tel: 519-539-0200, Fax: 519-539-9725*

☐ *Tick this box if you do not wish to receive promotional material from other companies*

● I would like a UK quarterly direct debit ongoing subscription
9648 ☐ £8.49 per quarter (Complete the form below)

Quarterly Direct Debit Instruction

AUTHORITY TO YOUR BANK/BUILDING SOCIETY TO PAY DIRECT DEBITS

Name of bank/building society ....

Address ....

Name of account ....

Your account no. ☐☐☐☐☐☐☐☐

Sort code ☐☐ ☐☐ ☐☐

Signature(s) ....

Date ....

FOR OFFICE USE ONLY
Originator's Identification No. 8 5 1 4 1 2
Ref No. ....

Your instructions to the bank/building society:

- I instruct you to pay Direct Debits from my account at the request of Europress Ltd.
- The amounts are variable and may be debited on various dates.
- No acknowledgement required.
- I understand that Europress may change the amounts and dates only after giving me prior notice.
- I will inform the bank/building society in writing if I wish to cancel this instruction.
- I understand that if any Direct Debit is paid which breaks the terms of the instruction, the bank/ building society will make a refund.

Bank/building society may decline to accept instructions to pay Direct Debit from some types of accounts.

● Deliver my magazine to:

Name (Mr/Mrs/Miss/Ms) ____________________

Address ____________________

Postcode ____________ Daytime phone no ____________

● Send this form to: *Europress Direct, FREEPOST, South Wirral L65 3EA. (No stamp needed if posted in UK.)*

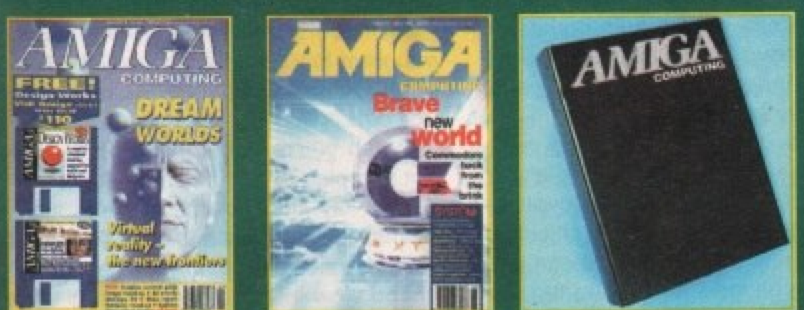
guide for your Amiga!

Take out a subscription and indulge yourself!

Choose one of these free gifts or special offers

● Two extra issues plus an elegant Amiga Computing magazine binder

Save £13.93



Subscribe to ***Amiga Computing*** and we'll send you a high quality, exclusive Amiga Computing magazine binder. These specially produced binders will keep your magazines in mint condition, providing an excellent reference point, as well as keeping them stored away neatly. As well as this useful binder you also get two extra magazines. Your 12 issue order is extended up to 14 issues, at no extra cost, so you get 14 fact-packed issues for the price of only 12.

● Alpha Data Mega Mouse and Logic 3 Mouse

Save £18.99



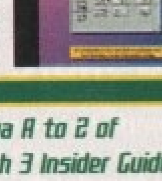
The well known Alpha Data Mega Mouse has ultra high 260dpi resolution with opto-mechanical encoder. The reliable micro-switch buttons provide effortless finger-tip operation. You can have all this and a high quality Logic 3 mouse mat absolutely free when you subscribe.

SUBSCRIPTION HOTLINE
for card orders
Tel: 051-357 1275
Fax: 051-357 2813

● Books for Amiga users

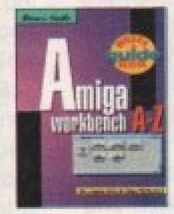
Choose one of these truly useful books from Bruce Smith Books, publisher of the world's best-selling Amiga books.

Amiga Disks and Drives Insider Guide



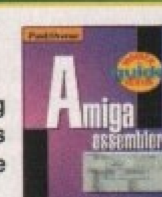
This book is suitable for all Amiga users and is the definitive guide to the Amiga's floppy and hard disk drives.

Amiga A to Z of Workbench 3 Insider Guide



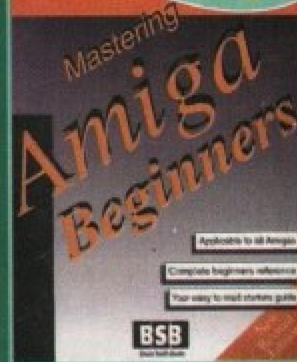
Suitable for Amiga A1200 or A4000 owners, this guide describes everyday usage of the Workbench in step-by-step terms.

Amiga Assembler Insider Guide



Ideal for new users wanting to learn to write programs in the native code of the Amiga assembler

Normally £19.95, only £3.95 if you subscribe.



Mastering Amiga Beginners

This is the book to provide you with a solid grounding, through easy to understand step-by-step instructions and explanations of terminology. This superb book covers the A1200, A600, Workbench familiarity – just about everything.

The Insider Guides normally retail at £14.95. Add £1 onto the cost of your subscription and any one could be yours.

● Zool 2



This widely acclaimed game follows Zool's travels through a further six huge levels, larger than those in the original, that feature a number of different ways of completion.

Zool has new and special abilities, including expert climbing skills and is now accompanied by his pet dog, Zoon. With great sound effects, hidden bonus rooms, highly intelligent enemies and the choice to play Zooz, Zool's girlfriend (shown here), Zool 2 makes an excellent free gift.

Zool 2 is suitable for any machine, though A1200 owners can choose an enhanced version (see order form).

Save £25.99

The great

Soft-Logik's PageStream has come a long way. The desktop publishing program that started life as a buggy port of an Atari ST program at version 1.5, eventually grew into version 2.22, a strong competitor for then-market-leader Professional Page.

But Soft-Logik wasn't content to try to be the best on the Amiga – no, they seem to want to be the best on *any* computer.

The forthcoming release, PageStream 3.0, isn't targeted at the stagnant Professional Page. No, Soft-Logik has its sights aimed at Quark XPress, the industry standard desktop publishing program that runs on the Macintosh and Windows.

That's a lofty goal for a small, Amiga-only company to set for itself. But if the beta versions of PageStream 3.0 I've been working with for the past few months are any indication, the full-blown program will give Amiga users a tool that will make their Mac- and Windows-using publishing friends green with envy.

PageStream 3.0 has been delayed quite a bit from its initial release – I first heard talk of the program at the World of Commodore Show in 1992.

As this was written in early July, Soft-Logik promised they would ship the program in early August, so it should be available by the time you read this.

The initial release will be feature packed for sure, but the company isn't going to stop there. As if a completely revamped interface and hundreds of new features wasn't enough, Soft-Logik has some more ideas on how to improve the program and promises a free update with even more features a few months after the initial release.

At first glance, long-time PageStream users might not recognize the new version. The familiar floating toolbar is still there, as is the page layout window.

But there's also a Quark XPress-like context-sensitive edit palette at the bottom of the screen, a row of control gadgets at the top of each editing window, and optional colour, font, style, macro, and page selection palettes.

GADGETS

Three-dimensional effects on the page outline and surrounding moveable rulers help set them off on the screen, and Amiga User-Interface Style Guide-compliant gadgets and windows make the program easier for new users to pick up.

The edit palette should help make you much more productive. It's context-sensitive and its functions change to fit the tool you've currently selected.

For instance, if you select the oval drawing tool, the palette displays the X and Y coordinates of the centre of the oval, as well as the width and height of the object.

Shift to the text tool and the palette presents you with gadgets for altering the current font, style tag, text attributes, size, width percentage, tracking and leading.

In addition, a toolbar at the top of each editing window lets you perform document-oriented commands such as Go To Page, Change Magnification, Undo, Redo, and clipboard operations.

No more hunting through the menus for commonly used functions – now they're usually only a mouse-click away.

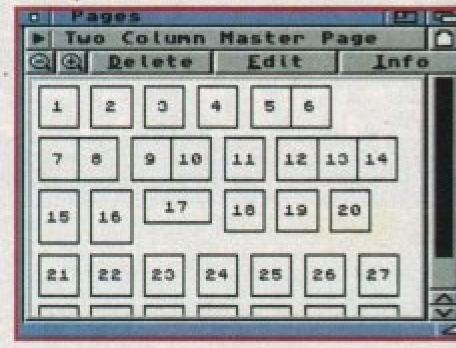
One of PageStream's best features has always been the ability to have multiple documents open simultaneously, each in their own window. In release 3.0, you can also open multiple windows on a single document.

This comes in handy in a number of ways: If you need to move an article from page three to page 50, for example; or if you want to view a thumbnail of the current page at 33 percent magnification while you edit details at 200 percent zoom.

When you're not working on a window but you plan to use it later, just hold down the Alt key and click the close gadget – it automatically iconifies into a title-bar sized window that won't get in your way.

The view inside those windows looks a lot better, too. PageStream now displays bitmap graphics in full colour, instead of as a muddy black-and-white outline. Graphics display in up to 256 colours if you have an AGA Amiga or a graphics card.

You can open PageStream in any screen mode supported by your Amiga, including resolutions added by graphics cards such as the Picasso II or EGS Spectrum; the boards just have to add their resolutions to the standard AmigaDOS ScreenModes



View your page layout in thumbnails to see how they fit together

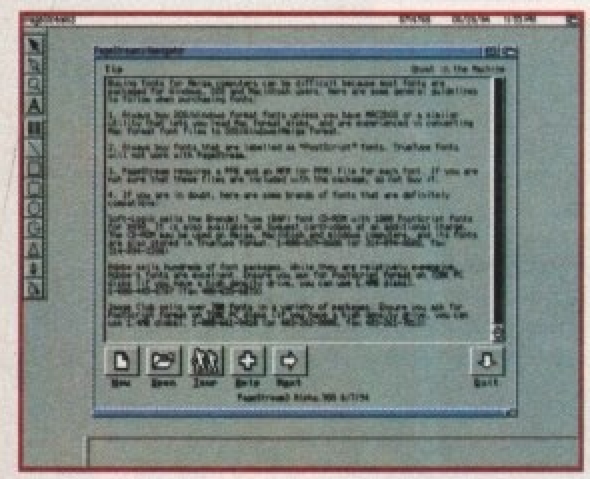
Help and more

PageStream 3.0.0 includes a comprehensive help system that uses Commodore's AmigaGuide to provide context-sensitive hypertext explanations of various commands.

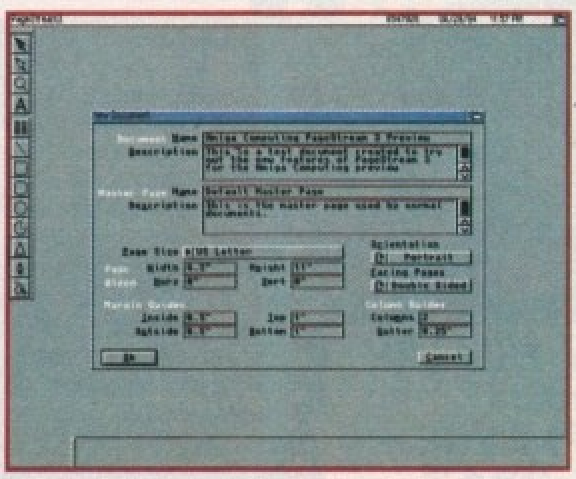
Everything's there, from basic operation to full ARexx command documentation. There's also an introductory tour sequence, and a window that pops up when you load the program and offers various tips on using PageStream's features.

There are a number of other features in this totally rewritten program that are new to PageStream and unique to any Amiga desktop publishing program.

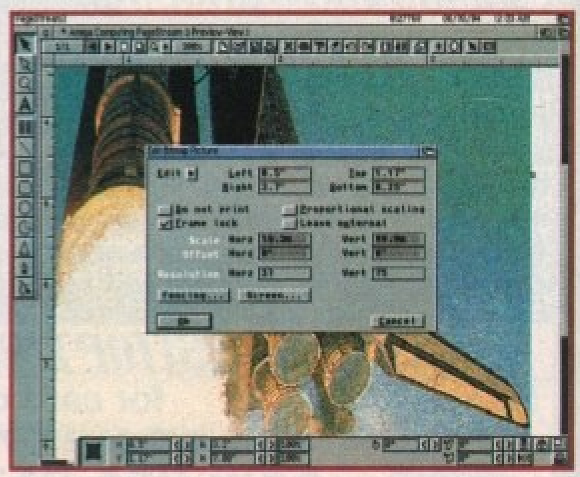
These include revision control numbering, timed saves that don't interrupt your work, automatic backups, undo and redo limited only by available memory (another feature that by itself is worth the price of admission), dot leaders, object nudging, and full support of the Amiga's clipboard.



A complete in-built guide is provided for ease of use



Define a new document to your exact requirements



Imported graphics may be resized, scaled and changed

divide

Denny Atkin previews the new improved version of PageStream and discovers why it could challenge for the top spot in the DTP charts



PageStream 3.0 has taken a long time to arrive...



...but the wait has been worth it

requester list. (You can also run PageStream on the Workbench or any other Public screen.) The program looks fantastic on a 1280x1024x256 Picasso screen on a 17-inch monitor.

In addition to supporting higher resolutions, PageStream 3.0 also supports opening screens larger than the current display, so you can work on large pages using the Amiga's ultra-speedy screen scrolling to move around quickly.

VEIWING

If your page is larger than the current window, holding down the right Amiga key and pressing the left mouse button turns the pointer into a hand that you can use to drag the window around until you're viewing the part you want to work on. (If you have a three-button mouse, you can use the middle mouse button to do this.)

In earlier versions of PageStream (and all the other Amiga publishing programs), you treated your entire document as a series of pages.

This was fine for short publications that shared similar formats, but made long documents that varied in format a pain to create – you spent much of your time just redesigning various pages.

PageStream 3.0 lets you divide your documents into chapters, and those chapters into subchapters. You can have different format defaults at the document, chapter, and subchapter levels.

PageStream 3.0's master pages feature lets you create basic page layouts – with objects like page numbers, headers, and repeating graphics – and have those layouts automatically repeat for all pages that use that particular master page.

Automatic table of contents and index generation macros further bring PageStream into the realm of professional publishing.

Even little details like page numbering are surprisingly powerful now. You can set the page numbering system at the document level, as well as whenever you insert a new page.

Chapters can be numbered, you can define chapter lengths, whether you want chapters to begin on odd or even pages and can insert the actual page count as well – which isn't always the same as the page number.

> PageStream 3.0 now supports display of both bitmap and structured graphics in up to 256 colours.

If you're creating a magazine or newsletter, you'll appreciate the ability to view page spreads. Just drag two pages together in the page palette window.

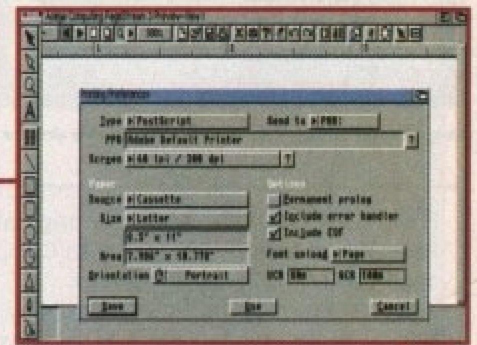
You can not only view the facing pages but also bleed objects across the pages. Both horizontal and vertical spreads are supported.

As I mentioned earlier, PageStream 3.0now supports display of both bitmap and structured graphics in up to 256 colours. Like earlier versions, PageStream 3.0 imports a wide variety of graphic formats, including BMP, EPS, GIF, IFF, MacPaint, PCX, Professional Draw, and TIFF.

New to this version is the ability to export graphics as well. You could import a GIF picture into your document and save it out in PCX format.

When placing bitmapped graphics on the page, you can tell PageStream to ignore the background, allowing you to automatically flow text around irregularly shaped bitmapped pictures.

Some Encapsulated PostScript (EPS) images have preview images encoded in ➤



Elements are user definable – from printing...



...to tab control...



A variety of different graphic formats can be used from Tiff to PCX. Shame there's no Jpeg



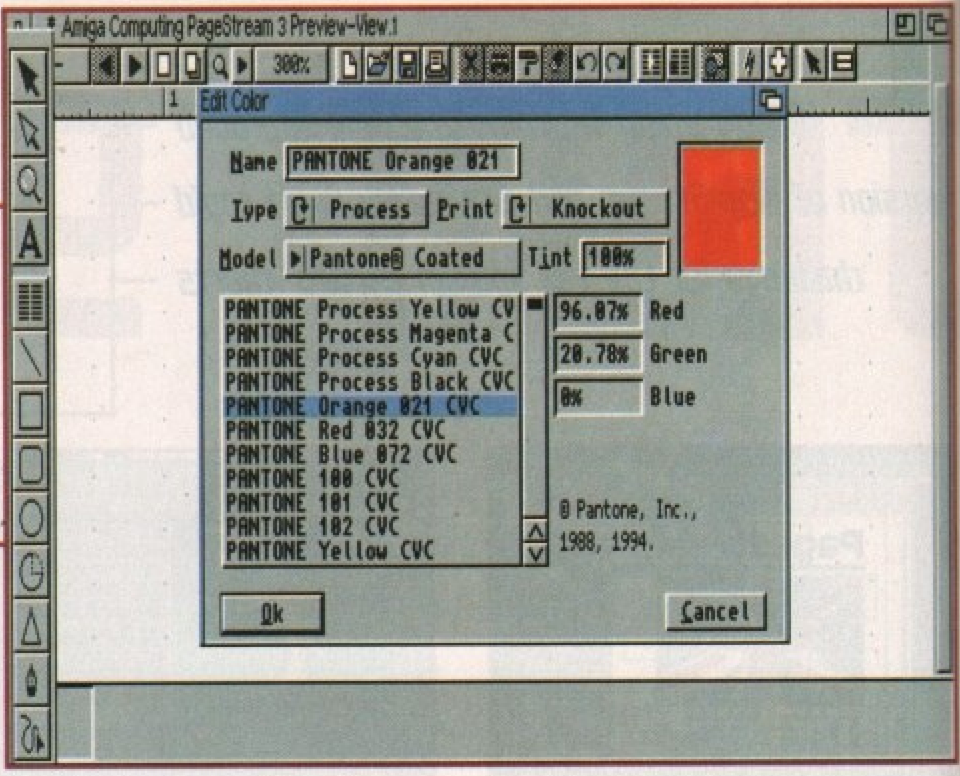
...to paragraph layouts

Under construction

This preview was based on a late beta-test version of the program, so there's always the chance that some features could change at the last minute and new features might be added before the program ships.

The manual was in the final editing stages when we went to press; Soft-Logik promises it'll be the best manual they've done yet, with five tutorials, thorough topic coverage, and a complete index.

We'll take a hands-on look at the manual and the other features included in the shipping version of PageStream 3.0 in an upcoming issue of Amiga Computing.



The PANTONE process is fully supported in the package

➤ them in TIFF (PC) or PICT (Mac) formats – PageStream can display both of these preview formats.

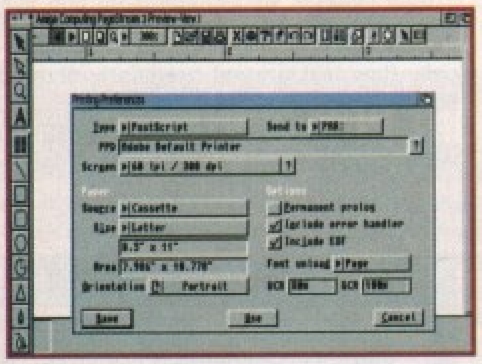
Unlike most programs, PageStream not only lets you display, resize, and crop graphics, but edit them as well.

Outline graphics formats can be altered using the built-in drawing tools; bitmaps are sent using the built-in HotLinks protocol to the bundled BME graphics editor.

BME is greatly improved over the initial release which was part of the now-included HotLinks Editions package. The new version supports colour display, has sophisticated ARexx capabilities, and does a great job automatically tracing bitmapped images and saving them in outline formats.

The beta version I tested didn't indicate any plans to add support for JPEG graphic import and export, which is the only serious omission in PageStream's graphic support.

If you're going to be creating professional colour output, you'll appreciate PageStream's support for PANTONE process and solid colours.



PageStream offers a wide range of printer drivers

SUPPORT

You can specify the angle and frequency for individual pictures and for each plate. PageStream supports user-definable trapping (spreads and chokes) for objects, and you can choose whether to overprint or knockout a particular ink.

PageStream supports Preferences printers, but includes custom drivers for Hewlett-Packard, Epson, Canon, and PostScript printers for better results.

Dozens of PostScript Printer Description (PPD) files are included, so PageStream can take full advantage of your printer or imagesetter's capabilities.

Industry-standard PPD files are used, so if you purchase a new model printer you can use the PPD file included for use on a PC or Macintosh. You can also output your pages as EPS files or bitmap graphics.

Along with the ability to load and convert PageStream 1 and 2 documents, PageStream 3.0 also supports loading documents in Professional Page 3 and 4 formats.

Gold Disk has suspended development of Amiga products, so Soft-Logik wanted to offer ProPage users the option to upgrade to a still-supported program, without losing access to all their old documents. To aid in the transition, PageStream 3.0 includes an AmigaGuide help document that lists Professional Page commands and their PageStream equivalents.

Typing with style

PageStream 3.0 supports the original custom PageStream font format, as well as Compugraphic and PostScript Type 1 font formats.

Unlike Professional Page, there's no practical limit to the size of fonts you can use in your documents. (PageStream's size limit for Compugraphic fonts is 50,000 points – that's 57 feet tall!)

Along with the usual text styles such as bold, underline, and italic, PageStream also supports generation of small caps and reversed text.

A particularly neat addition to version 3.0 is configurable styles. You can change the colour, thickness, and style of an underline, for instance.

Text characteristics are configurable as well. If you want to create a garish headline font with a three-point-thick outline and an orange-red gradient fill, PageStream will let you do it. PageStream 3.0 should ship with approximately 50 fonts.

Widow and orphan control lets you keep paragraphs from being split across columns, or make sure that a certain number of lines at the beginning or end of a paragraph are kept together. Conditional breaks protect a section of text from being broken across two columns. This is useful for keeping headlines from being separated from their articles.

Various character-level improvements can make your text look a lot better. You can enable automatic ligatures, which can merge characters to create smoother-looking combinations.

PageStream 3.0 can convert dashes and inch-mark quotes into en- and em-dashes and smart quotes automatically when you import text.

PageStream supports placing text in defined frames on the screen, but it also lets you type freeform on the page. Frames can now contain more than one column of text. This makes changing page layouts much easier if you discover you need to increase or decrease the number of columns on a page.

Just select the frame and change the columns setting – this is a lot easier than redrawing column guides on the screen and relinking and reflowing text boxes.

Also, if you resize a frame, the columns contained within are resized as well. Frames don't have to be boxes, either – PageStream lets you draw any shape using its drawing tools and flow text into it.

When you're editing large amounts of text you'll appreciate the fact that Soft-Logik is now bundling the PageLiner text editor with PageStream. It won't replace your word processor, but it beats trying to edit on the page layout screen.

The initial release of PageStream 3.0 will import text from most popular Amiga word processors, including Final Writer, WordWorth, WordPerfect, and ProWrite.

Although the formats may not be included at initial release, Soft-Logik hopes to add support for popular PC word processor formats such as WordPerfect 6.0 and Word for Windows.

This will make life easier for newsletter editors whose authors send in their work on PC disks. The word processor filters now support both reading and writing, so you'll be able to use PageStream, for example, to convert text from WordPerfect to Final Writer format.

AUTHORISED DEALER FOR * AMIGA * STAR *

AMIGA

Amiga CD³² + Microcosm + Chaos Engine	249.00
A600 Wild, Weird & Wicked Pack	199.00
A1200 Race 'n Chase Pack (Trolls/Nigel Mansell)	299.00
A1200 Dynamite Pack	329.00

PRINTERS

All printers include a parallel cable

Canon BJ-10sx Bubble Jet	189.00
Canon BJ-200 Bubble Jet + Integral Sht Fdr	259.00
Star LC-100 Colour	129.00
Star LC24-100	135.00
Star LC24-20 Mk II	165.00
Star LC24-30 Colour	209.00
Star LC24-300 Colour	249.00
Star StarJet SJ-48 Bubble Jet	219.00
Star SJ-144 Colour Thermal	359.00
Panasonic KX-P2023 24-pin Mono + Sht Fdr	159.00
Panasonic KX-P2123 24-pin Colour + Dust Cover + Colour + Black Ribbon	189.00

DISK DRIVES

A500/600/1200 3.5" External Drive	(p&p £3) 48.95
A600 or A2000 Internal 3.5" Drives	(p&p £2) 59.95
A500 Internal 3.5" Drives	(p&p £2) 54.95
A600/1200 209Mb Internal Hard Drive	279.00
GVP 120Mb SCSI HDD for A1500/2000/3000/4000	329.00

MISCELLANEOUS

A1200 Hawk RAM + Clock 2/4Mb RAM No FPU	(Free p&p) 129/199
A1200 Hawk RAM + Clock 2Mb RAM + 33MHz 68882 FPU	(Free p&p) 199.00
A1200 Hawk RAM + Clock 4Mb RAM + 20MHz 68882 FPU	(Free p&p) 245.00
A1200 Hawk RAM + Clock 4Mb RAM + 40MHz 68882 FPU	(Free p&p) 289.00
GVP A1230-II 40MHz Accel 68030EC + 0Mb RAM	(Free p&p) 229.00
GVP A1230-II 40MHz Accel 68030EC + 4Mb RAM	(Free p&p) 429.00
A600/1200 PCMCIA Smart Stor 20/30Mb	(p&p £1) 149/179
Anti-Surge 4 x 13 amp Socket Block	(p&p £2) 18.95

CHIPS

Kickstart V2.04 ROM for A500/2000	(Free p&p) 26.50
Kickstart V1.3 ROM for A500/2000	(Free p&p) 15.95
Super Denise 8373 (For New Graphics Modes)	(Free p&p) 19.00
1Mb Fat Agnus 8375	(Free p&p) 19.00
CIA Chip 8520	(Free p&p) 7.95

ALL PRICES INCLUDE 17.5% VAT. CARRIAGE £7. Prices subject to change without notice. E&OE

CD-ROM Drive for A1200

Runs over 90% of CD32 software

Plays Audio CDs, Shows Photo CDs, Plugs into PCMCIA Port

£189.00

Amiga 4000/030

Now with *Free* DPaint IV, *Free* Wordworth V2, *Free* Print Wordworth Manager

4Mb RAM No Hard Drive	£849
4Mb RAM 214Mb HDD	£999
4Mb RAM 540Mb HDD	£1299

Amiga 1200

Computer Combat / Innovations Pack

Wordworth 2 + Print Manager, Personal Paint 4 + Day by Day Planner, Total Carnage + Brian the Lion + Zool 2

£339

Microvitec Series 3 Monitor

Autoscan 0.28 Dot + Two Speakers

Supports Normal, Productivity & AGA Modes, PC Super VGA Compatible

£289.00

(All A4000/1200 Prices include Home Maintenance)

Delta Pi Software Ltd

VISA

8 Ruswarp Lane, WHITBY, N. Yorks YO21 1ND
TEL/FAX: 0947 600065 (9am - 7pm)

MasterCard

AMIGA REPAIRS

Repairs undertaken to Amiga 500 computers at £44.95 inclusive of parts, labour, VAT and return postage/packing

Commodore registered for full technical support

Computers repaired in the quickest possible time

All machines will be overhauled with a full soak-test to ensure optimum reliability

Entrust your machine to the experts, full 90 day warranty

Repairs to disk drive and keyboard also included (extra charge possible if found to need complete replacement)

Repairs to other Commodore systems undertaken - phone for details

Upgrades and expansions supplied and fitted - phone for details

£44.95

COLLECTION SERVICE AVAILABLE

To take advantage of this exceptional offer, simply send or hand deliver your computer to our workshop complex, address details below, enclosing this advertisement voucher, payment, fault description, return address, along with your daytime and evening telephone number and we will do the rest.
Should you require Group 4 Security return delivery, simply add £5.00 to the repair charge.

Access · WTS · VISA

WTS Electronics Ltd Chaul End Lane Luton Bedfordshire LU4 8EZ Tel 0582 491949 (6 lines)

(We reserve the right to reject machines which, in our opinion, are beyond repair- Normal charge applies)

FIRST COMPUTER CENTRE (LEEDS) Tel:0532 319444

now open late night Wednesday & Thursday till 7.30pm

"VOTED BEST DEALER" CU AMIGA JAN 93

FIRST COMPUTER CENTRE

OPEN 7 DAYS A WEEK

OPEN MON-SAT........9.30AM-5.30PM
SUNDAY OPENING..11.00AM-3.00PM
WEDNESDAY & THURSDAY
Late Night Opening.......9.30AM-7.30PM
OPEN HALF DAY MOST BANK HOLIDAYS

TELEPHONE LEEDS

24 HOUR MAIL ORDER SERVICE

0532 319444 10 LINES!

FAX: 0532 319191

SHOWROOM ADDRESS:
DEPT. AC, UNIT 3, ARMLEY PARK COURT, OFF CECIL ST, STANNINGLEY RD, LEEDS, LS12 2AE

HOW TO ORDER

Order by telephone quoting your credit card. Please make cheques payable to the: "FIRST COMPUTER CENTRE." In any correspondence please quote a phone number & post code. Do not forget to include the delivery tariff & Dept. code. Allow 5 working days for cheque clearance.

- All prices include VAT @ 17.5%
- Large showroom with free parking
- Overseas orders taken subject to status
- Educational orders welcome
- Established Multi million pound company

UK MAINLAND DELIVERY TARIFFS

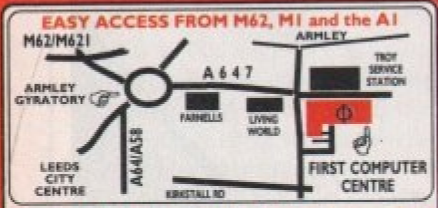
- Standard Delivery........................£1.50
- Guaranteed 2 to 3 day (week days) Delivery........................£2.95
- Guaranteed Next Day (week days) Delivery........................£4.95

First Comm Bulletin Board

Why not place your orders on our new bulletin board. First comm is not just a means of ordering, it also gives you access to read or download technical support files and advice.

Tel. 0532 311422

EASY ACCESS FROM M62, M1 and the A1



From the M62 take the M621 and follow the turnoff for Leeds/York, A58. This will merge with the Armley gyratory.

From the M1 follow signs for the M621 (ignore exit for town centre). Take A643 Elland Rd turnoff from M621. Follow signs for A58. This merges with Armley gyratory.

From the A1 take the turnoff for the A64. This merges with the A58 (by-passing Leeds town centre) which meets the Armley gyratory. After "Living World" at traffic lights take a right, left, left again, & 2nd left to get to FCC.

We recommend you confirm prices before placing an order. E&OE.

AMERICAN EXPRESS · SWITCH · Access · VISA · MasterCard

2% surcharge on AMEX

CD ROM Drives

A1200 OVERDRIVE CD-ROM

NEW! Runs CD32 software, Plays Audio CD's, shows photo CD's. Plugs into PCMCIA slot **only £194.99**

Internal SCSI CD-ROM drives for the A1500/3000/4000 (with suitable SCSI interface). All drives include driver software & will read both CDTV / CD32 & PC ISO 9600 standard disks. External kits for A3000 also available

NEC Multispin 2XI Internal **£167.99**
- 265Ms Access time • 355KB transfer rate

TEAC CD-50 Internal **£339.99**
(Amiga 1500/2000 compatible only)
- 320Ms Access time • 300KB transfer rate

TOSHIBA XM3401 Internal **£286.99**
- 200Ms Access time • 330KB transfer rate

TOSHIBA XM4101
- 385Ms Access time • 300KB transfer rate

Internal.£189.99 External.£259.99

Mitsumi FX001ID Dual Speed...£129.99

Tandon IDE CD ROM Controller for use with Mitsumi only............£64.99

GVP A4008 SCSI controller.......£122.99

AMIGA REPAIR CENTRE

We offer a FREE quotation on your Amiga or any peripheral (monitors, printers etc). A delivery tariff of just £5.00 is charged or alternatively you can visit our showroom. We can also arrange a courier pickup at an additional cost of £11.00.

AMIGA 500 Plus trade in offer

When you spend £300.00 or more with us you can trade in an Amiga 500 Plus for £100.00. Your old Amiga must be in working order complete with PSU and modulator.

The AMIGA A1200

A1200 Standard pack only £269.99
without games software

Computer Combat pack only £329.99!
with Total Carnage, Brian the Lion, Zool 2, Wordworth 2, Print Manager, Day by Day, Personal Paint 4

RACE & CHASE pack only £289.99!
with Nigel Mansell F1 and Trolls!

HARD DRIVE VERSIONS

	STD pack	R&C pack
64Mb	£414.99	£439.99
85Mb	£429.99	£489.99
127Mb	£474.99	£519.99
250Mb	£569.99	£589.99

Add £60.00 to the STD pack price for the Combat Hard Drive packs

THE CHAOS PACK!

- CHAOS ENGINE
- NICK FALDO CHAMPIONSHIP GOLF
- PINBALL FANTASIES
- SYNDICATE

only £29.99 or £19.99 with any AMIGA!

THE FIRST 5 GAME PACK

- BRIAN LION
- ZOOL 2
- DENNIS
- OSCAR
- TOTAL CARNAGE

only £19.99

The AMIGA 4000

A4000/030, 80 Mb HD........................£1039.99
A4000/030, 214 Mb HD*...............£1119.99

A4000/40

A4000/040LC, 120 Mb HD*...............£1569.99
A4000/040LC, 214 Mb HD...............£1614.99

A4000/40 SCSI Tower systems £POA

All the above examples come with 6 Mb of RAM as Standard
*The hard drive only is not covered by on site warranty

All Amiga's come with Workbench, mouse & 12 month warranty. The A1200 & A4000 come with 12 months on site warranty All 1200's also come with a built in integral hard disk option.

A600 & 1200's 2.5" HD kits

*Just Add £10.00 for fitting

NEW LOW PRICES

60Mb....*£134.99 120Mb...*£199.99
80Mb....*£159.99 250Mb...*£309.99

3.5" H/drive upgrade kit no HD only £22.99

PRIMA A1200 REAL TIME CLOCK

Date & time stamp files. Fits directly onto motherboard with no soldering check for compatibility **only £13.99!**

PRINTERS

All our printers are UK spec, come with ribbon/toner, printer drivers (if available), paper & cables!!

Canon

Canon BJ10sx........................£181.99
Laser quality output. Large buffer

Canon BJ200........................£231.99
3 page a min speed, 360 dpi, small footprint & 80 page sheetfeeder

Canon BJ230........................£314.99
wide carriage version of above

Canon BJ300........................£419.99
Desktop bubble jet with laser quality

Canon BJ330........................£499.99
Wide carriage version of the BJ300

Canon BJC600 Colour..........£532.99
new bubble jet from Canon

BJ10 Autosheetfeeder..........£49,99

CITIZEN COMPUTER PRINTERS

NEW LOW PRICES

Citizen printers have a 2 year guarantee

New! ABC Colour printer.........£154.99
simple (as easy as ABC) to use 24 pin printer. Comes as standard with 50 sheet Auto sheet feeder. Tractor feed optional at £27.99
only £139.99 if bought without the colour option

Swift 90 Colour........................£156.99
Excellent value 9 pin colour. Highly recommended

Swift 200 Colour...................£181.99
Same out put as the 240 but with less facilities

Swift 240 Colour...................£218.99
24 pin, 240cps draft, 10 fonts, quiet mode, 240cps.

Projet II...................................£214.99
new inkjet printer with built in auto sheet feeder

Swift Auto Sheet feeder.........£79.99

HEWLETT PACKARD

HP 310 Portable...................£229.99
NEW! HP 520 mono.............£249.99
HP 500 Colour.......................£344.99
NEW! HP 560 Colour...........£489.99
even faster than the old HP550C!!

All HP printers come with a 3 year warranty

star COMPUTER PRINTERS

NEW LOW STAR PRICES

Star LC100 colour................£119.99
9 pin colour, 8 fonts, 180 cps draft, 45 cps NLQ

Star LC24-100.........................£126.99

Star LC24-30 Col.......................£199.99
complete with automatic sheet feeder, 192 cps draft

Star LC24-300 Col....................£249.99
24 pin quality, 264 cps draft, 80 cps LQ, 39K buffer expandible to 48K, 16 fonts and quiet mode.

Star LC24-200 colour..........£219.99
Colour version with 30K buffer expandable to 62K

Star SJ48 Bubble jet.............£209.99
Laser quality, ultra quiet, Epson compatible & portable

Star SJ144 Colour Thermal
Stunning affordable colour printer. 3 PPM, low running costs
only £339.99

Star SJ48 Autosheet feeder
only £49.99

Univedrsal Printer Stand.....only £4.99

PRINTER CONSUMABLES

RIBBONS

Citizen Swift mono ribbon....................£4.99
Citizen Swift Colour ribbon....................£13.99
Star LC10/100 mono....................£3.69
Star LC200 mono....................£4.99
Star LC10/100 colour....................£7.99
Star LC200 colour....................£12.99
Star LC24-30 mono....................£8.99
Star LC24-30/200 Colour....................£11.99
Re-Ink Spray for mono ribbons....................£11.99

COVERS

Canon printer cover (please specify model).......£5.99
Citizen Swift/ABC....................£5.99
HP 500/550/510....................£5.99
Star LC100/200....................£5.99
Star LC24-300/30....................£5.99
Star LC10/20 cover....................£4.99

PAPER

prices apply only when ordered with printer or purchased direct from the showroom

Fanfold (tractor feed)..................500 sheets.....£4.99
Fanfold (tractor feed).........1000 sheets...£8.99
Fanfold (tractor feed).........2000 sheets.£17.99
Single sheet..........................500 sheets...£4.99
Single sheet..........................1000 sheets...£8.99
Single sheet..........................2000 sheets.£17.99

Delivery for 2000 sheets £5.00 when purchased without printer

PREMIER Ink Cartridge Refills

Save a fortune in running costs with your ink/bubble jet. Compatible with the HP500/550, Deskjet Plus, Canon BJ10/20/80/130/200/300/330, Star SJ48, Citizen Projet and many others. Full range of colours available.

Single refills (22ml)....................£6.99
Twin refills (44ml)....................£12.99
Three colour kit (66ml)....................£19.99
Full colour kit (88ml)....................£27.99
Bulk refills (125ml)....................£24.99

Cartridges

Canon BJ10 cartridge....................£18.99
Double life 500 cartridges....................£24.99
HP550/500 Colour cartridge....................£24.99
Star SJ48 cartridge....................£18.99
Star SJ144 cartridge (pack of 3)....................£42.99
Star SJ144 mono cartridges (3 pack)...£21.99
Star SJ144 colour cartridges (3 pack)..£21.99

Miscellaneous

Printer Switch Box 2 way....................£12.99
Printer Switch Box 3 way....................£17.99
Printer Stands (Universal)....................£7.99
3 Metre printer cable....................£6.99
5 Metre printer cable....................£8.99
10 metre printer cable....................£12.99

SUPRA MODEMS

NEW LOW PRICES

SupraFAXModem 288

NEW Super fast! 28,800 bps + 14,400 Fax

Phone for more details **only £243.99**

SupraFAXModem 144LC V.32 bis (14400 baud!)

Low cost version of the classic V32Bis Fax modem. Features as below but class 1 fax only and LED display

only £141.99

SupraFAXModem V.32bis

This modem has full 14400 baud. includes V.32bis, V.32, V.22bis, V22, V21, MNP2-5, V.42, V42bis, Class 1 & 2 commands, 9600/14400 Group 3 Fax. Includes free modem comms (not Fax)s/w & cable

only £178.99

SupraFAX Plus.......£112.99

Even faster than the standard 2400 from Supra with auto dial & auto receive. 9600 bps Hayes comp. V22Bis, V42 Bis, MNP 2-5 & auto adjust to maximise transmission speeds. Includes free modem comms (not Fax) s/w & cable.

Supra 2400......................£58.99

Get on line using this great value fast modem with auto dial & receive. 2400 baud Hayes comp, V22 BIS. Includes free modem comms s/w & cable!!

Supra modems are not BABT approved, however they perform as well & often out perform BABT approved modems. Supra Modems have a 5 year limited warranty

USRobotics

WE ARE PREFERRED USR DEALERS

NEW LOW PRICES!

Sportster 2496 +Fax....................£104.99
Sportster 14400 Fax....................£151.99
WorldPort 14400 +Fax..............£251.99
WorldPort 2496 + Fax £181.99
Courier Dual Std V.Fastclass (Limited Offer).£369.99

If you thought V32bis was fast try the terbo! They come with a 5 year warranty & are BABT Approved!

MONITORS

All our monitors are UK spec. All monitors come complete with a free Amiga lead*



NEW! AKF40

only £249.99

Stereo, colour monitor with same spec to the old Philips 8833 and Commodore 1084S. Includes FREE built in tilt and swivell stand.

NEW! Microvitec Autoscan 1438

.28 dpi, 15/38 KHz, all Amiga modes, AGA comp. no audio, tilt & swivell stand.

now only £289.99

*Free cable for A4000 only A1200 cable £6.99 extra

PRIMA A500 & A600 RAM

3 YEAR WARRANTY!!

A500 512k RAM expansion (no clock)..£19.99

A500 Plus 1 Mb RAM expansion..................£34.99

A600 1 Mb RAM expansion (with clock)..............£39.99

32 BIT RAM (for A4000 etc)

1 Mb SIMM.........................£39.99
2 Mb SIMM.........................£95.99
4 Mb SIMM....NEW LOW PRICE!....£139.99
8 Mb SIMM..NEW LOW PRICE!.....£269.99

RAM & CUSTOM CHIPS

SPEED	PLCC	PGA
25 Mhz	£53.99	£69.99
33 Mhz	£71.99	£9199
50 Mhz	N/A	£137.99

1mb by 8/9 SIMMS (1 Mb).......£34.99
4 Mb by 9 SIMMS (4 Mb)..........£144.99
1 Mb by 4 DRAMS(1Mb)..............£39.99
1 Mb by 4 ZIPS(1/2 Mb)..............£22.99
256 by 4 ZIPS.............................(each) £5.99
256 by 4 DRAM (DILs)................(each) £5.99
DKB 1202 A1200 RAM board......£84.99
takes 2 32 bit SIMMs. Has an optional FPU. See above for prices
Kickstart 1.3..................................£23.99
Kickstart 2.04................................£28.99
Kickstart 2.05 (for use in A600)...£28.99
Fatter Agnes 8372A.......................£26.99
Super Denise...................................£18.99
6571-0326 Keyboard controller..£13.99
CIA 8520A I/O controller..............£8.99

AMIGA 1200 RAM

HAWK CO-PRO & RAM

Realise the full potential of your A1200 with this trapdoor expansion. inc real time clock

1 MB RAM.....................................£98.99
2 MB RAM...................................£134.99
4 MB RAM...................................£198.99
8 MB RAM...................................£394.99
1 MB & 20 MHz CO PRO....£147.99
2 MB & 33 MHz CO PRO....£198.99
4 MB & 40 MHz CO PRO....£294.99
8 MB & 40 MHz CO PRO....£494.99

FULL 2 YEAR WARRANTY

SUPRA A500 RAM

Simply the best! Fits onto the side expansion port Auto configures with no software patching.

8Mb pop to 2 Mb.................................£175.99
8Mb pop to 4 Mb.................................£259.99
8Mb pop to 8 Mb.................................£429.99
8Mb pop to 2 Mb for 2000/1500 range..£149.99

GVP PRODUCTS

A1200 Products

33 Mhz 68882 for A1200 SCSI/RAM....................£77.99
External SCSI kit SCSI/RAM...............................£47.99

NEW! A1230 MK II Accelerator Board

Speed	RAM	FPU	Cost
40	0	0	£244.99
40	4	0	£437.99
40	4	40	£535.99
40	8	0	£634.99
50	0	0	£369.99
50	4	0	£564.99
50	4	50	£664.99
50	8	0	£759.99

A1500/2000/4000 Products

HC8+/0Mb drive..£122.99
HC8+/42Mb drive..£197.99
HD8+/120Mb drive..£299.99
PC286 Emulator for HD8+/A530......................£99.99
G-Force 030 40 Mhz 4Mb RAM.......................£599.99
Hard Drive mounting kit for G-Force................£34.99

GVP Simms

1 Mb £64.99
4 Mb...£194.99
1291 SCSI Module for A1200.......................£79.99

Miscellaneous Hardware

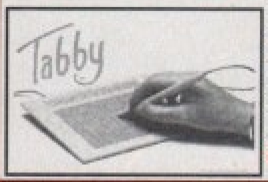
The Serial Link (Adaptor to link CD32/Amiga/PC) only £29.99
Panavision SX-1 (CD32/1200 emulator..........£219.99
XDS Dataflyer External Hard drive kit..............£64.99
DKB Mega Chip II (2Mb chip RAM)..................£169.99
gives 2 Mb of chip memory on A500/A1500/2000
ROCHARD DRIVES from £214.99 (42Mb) for the A500/A500+ takes standard IDE hard drives, expandable to 8Mb using 1Mb SIMMS. inc. PSU & installation software
AMIGA 1200/500/600 PSU...... NEW! £39.99
AMIGA 500 Modulator.......................................£32.99

SPECIAL OFFERS!

Deluxe Paint 4 AGA..........................£39.99
Directory Opus 4...............................£51.99
Distant Suns 5...................................£35.99
Personal Paint V4..............................£29.99
Technosound Turbo...........................£18.99
Technosound Turbo 2........................£25.99
Wordworth 2 AGA with Print Mgr & Day To Day Planner..£39.99
XCopy Pro plus hardware..................£25.99

Workbench 2.04 software and ROM upgrade (complete with manuals) only £49.99

100% RATED! AMIGA COMPUTING AUGUST 94



The amazing new graphics tablet for the Amiga developed with the help of First Computers. 86% rated in ST Format January issue! Requires 2.04 WB or above

only £54.99

SCANNERS

Alfa Data Alfa Scan

hand held scanner with 256 greyscales and up to 800 Dpi

only £114.99 or £139.99 with OCR software

Alfa Data Alfa Colour Scan

18 bit scanner with 256K colours inc colour correction **only £329.99**

Power Scanner V4 £119.99

With the latest version 4 s/w for bright & sharp grey scale performance. Flexible scanned image display manipulation options, plus Clean up, embolden, resize & flip.
Colour version only £239.99

EPSON GT6500 Colour Flatbed only £564.50 phone for details

Art Department Pro Scanner S/W..£109.99
compatible with Epson ES300C, ES600C, ES800C, GT6000, GT6500 & GT8000

MICE & TRACKERBALLS

Alpha Data Mega Mouse 90% rating. 290 Dpi..£10.99 or £12.99 for 400 Dpi version
DATALUX CLEAR MOUSE High quality clear 2 button mouse...............£19.99
Zydec Trackball.............£29.99
Aplha Data Trackbail.......£37.99

DISK DRIVES



AMITEC 1 mb 3.5" drive

Features Anti Click, Anti Virus, Sony Mech, 2 year warranty **only £58.99**

Zappo 3.5 with 10 FREE disks only £49.99 NEW!

Cumana 3.5"...........only £56.99
1 meg external drive. The best name in disc drives
A600/1200 internal drive............£53.99
A500 internal drive.....................£49.99
A4000 internal HD drive............£99.99

GENLOCKS

VHS | VHSC | SVHS | SVHSC | Video8 | Hi8

hama ON DEMO NOW!

The Professional answer

hama 292..............................£269.99
S-Video, and composite compatible
hama 290..............................£674.99
S-Video, and composite mixing, plus far more

hama A-CUT Video Editor £185.99 NEW!

GVP Genlock.........only £264.99
features professional SVHS output
Rocgen Plus..........only £152.99
Includes dual control for overlay and keyhole effects, extra RGB pass thru.
Rendale 8802 FMC..only £164.99
Rocgen Rockey...............only £152.99
For creating special effects in video production with genlocks.

ROMBO PRODUCTS

VIDI 12 Real Time £134.99

Real time colour digitizing from any video source. Full AGA support

VIDI 24 Real Time £223.99

24 bit quality real time colour digitizing from any video source. Full AGA support

NEW LOW PRICES

VIDI 12 AGA £64.99

Full support for AGA chipset. Colour images captured in less than a second, mono images in real time with any video source. Multitasking s/w, cut & paste.

VIDI 12 Sound & Vision AGA

with built in MegamixMaster **£98.99**

TAKE 2 £35.99

Features include load and save from D. Paint animations and IFF files. Supports HAM graphics.

Megamix Master........£26.99

8 bit, high spec. sampler. Special effects include echo that can be added in real time, fully multitasking & easy to use.

ACCELERATORS

MICROBOTICS

MBX 1200Z with 20 MHz FPU............£89.99
MBX 1200Z with 50 MHz FPU............£214.99
expandible to 8 Mb 32 Bit RAM (see RAM prices)
New M1230 for A1200 withup to 128 Mb fast RAM!
M1230 XA 33Mhz, 0Mb.......................£245.99
M1230 XA 40Mhz, 0Mb.......................£264.99
M1230 XA 50Mhz, 0Mb.......................£334.99
VXL 30 25 Mhz (for A500)....................£184.99
VXL 30 40 Mhz (for A500)....................£259.99
VXL 2 Mb Ram Board (for A500).........£189.99
expandible to 8 Mb 32 Bit RAM (see RAM prices)

SUPRA 28 ACCELERATOR

for the A500/A500+& A1500/2000
28 Mhz, uses A500 side port so there is no internal fitting

only £144.99!

PRIMA ROM SHARERS

This high quality ROM sharer features a flexible ribbon connection so that it can be positioned anywhere within your A500 Plus or A600. Full 2 year replacement warranty

now only £17.99 or £24.99 for keyboard switchable version

ACCESSORIES

Real Time A1200 internal clock module...only £13.99
Mouse/joystick manual port switcher........only £13.99
Amiga A500/600/1200 Power Supply...............£39.99
Amiga 500/500 Plus keyboard.........................£45.99
Amiga 500 Plus Motherboard............................£29.99
Amiga 500 Plus Case.......................................£12.99
QUALITY MOUSE MATS.................................£3.99
10 CAPACITY DISK BOX................................£0.99
20 CAPACITY DISK BOX................................£2.99
40 CAP LOCKABLE DISK BOX.......................£3.99
100 CAP LOCKABLE DISK BOX.....................£5.49
*90 CAP STACKABLE BANX BOX.................£9.99
*150 CAP STACKABLE POSSO BOX.........£17.99
*add £3.00 delivery if purchasing just one Posso or Banx box. Normal delivery when purchased with other product or when buying 2 or more.
AMIGA A500 DUST COVER..........................£3.99
AMIGA 600 COVER..£2.99
14" MONITOR DUSTCOVER..........................£6.99
NEW! Keyboard Membrane Covers.................£14.95
AMIGA TO SCART CABLES...........................£9.99
STD 1.8 METRE AMIGA PRINTER LEAD....£4.99
MODEM AND NULL MODEM CABLES......£9.99

AMIGA CONTROL STATIONS

A500 or 1200 VERSION....................................£36.99
A600 VERSION..£29.99

DISKS

All disks are 100% error free guaranteed
New High density 3.5 inch bulk and branded
Please phone for best prices!

QTY	Bulk DS/DD	Branded DS/DD
10	£4.49	£5.49
30	£12.99	£14.99
50	£20.99	£22.99
100	£37.99	£42.99
200	£69.99	£79.99
500	£168.99	£190.99
1000	£324.99	£365.99

Branded disks come complete with labels
Disk Labels....500..........................£6.99
Disk Labels..1000..........................£9.99

SOFTWARE

BUSINESS

Maxi Plan 4.....................................£24.99
Mini Office......................................£38.99
Money Matters.................................£35.99

MISCELLANEOUS

Distant Suns 5................................£35.99
XCAD 2000.....................................£97.99
XCAD 3000.....................................£289.99

MUSIC/SOUND

Clarity 16 sampler...........................£105.99
Deluxe Music Construction Set v2......£59.99
Pro Midi Interface by Microdeal..........£24.99

Techno Sound Turbo..........................£18.99
Techno Sound Turbo 2.......................£25.99

PROGRAMMING

Amos Creator...................................£34.99
Amos Compiler.................................£21.99
Amos 3D..£25.99
Amos Professional............................£47.99
Amos Professional Compiler..............£24.99
Bliz Basic 2......................................£53.99
Devpac 3..£50.99
Easy AMOS.......................................£24.99
SAS C Version 6.5............................£234.99

PUBLIC DOMAIN *Top 50*

from £1.50! (many more titles available)

Ami Base Pro v 1.8..........(PDA001) 1 disk £1.50
Disk Salv V2...................(PDA003) 1 disk £1.50
D-Copy V3......................(PDA004) 1 disk £1.50
Edword Pro V4................(PDA005) 1 disk £1.50
Easy Calc Plus................(PDA006) 1 disk £1.50
E-Type 2.........................(PDA048) 1 disk £1.50
First Mods disk 2............(PDA056) 1 disk £1.50
Grapevine 17..................(PDA009) 3 disk £2.75
Relokick 1.3....................(PDA011) 1 disk £1.50
Klondyke AGA.................(PDA013) 3 disk £2.75
First Mods disk 1............(PDA055) 1 disk £1.50
Mindwarp AGA Demo.......(PDA015) 1 disk £1.50
Motorola invaders AGA....(PDA016) 2 disk £2.25
Magic Workbench Utils....(PDA017) 1 disk £1.50
First Mods disk 3............(PDA057) 1 disk £1.50
PC Task Emulator...........(PDA019) 1 disk £1.50
Reorg V3.1......................(PDA023) 1 disk £1.50
Spectrum Emulator version 1.7.(PDA027) 1 disk £1.50
Spectrum Games Disk......(PDA028) 1 disk £1.50
Fit Chix...........................(PDA030) 2 disk £2.25
9 Fingers Rave Demo......(PDA033) 2 disk £2.25
Mean CD Machine...........(PDA036) 3 disk £2.75
Fit Chix 2........................(PDA034) 2 disk £2.25
The Mini AGA..................(PDA038) 1 disk £1.50
CD Wars..........................(PDA039) 1 disk £1.50
First Mods disk 4............(PDA058) 1 disk £1.50
Andys Workbench 3 Utils.(PDA031) 1 disk £1.50
Desert Dreams Demo......(PDA012) 2 disk £2.25
Origin Complex...............(PDA040) 1 disk £1.50
Ray World AGA Demo......(PDA041) 1 disk £1.50
CLI/SHELL Help..............(PDA002) 1 disk £1.50
Clipart 1 - MacArt...........(PDAC01) 1 disk £1.50
Clipart 11 - Wildlife........(PDAC11) 1 disk £1.50
Clipart 3 - MacArt 2........(PDAC03) 1 disk £1.50
Clipart 4 - Food..............(PDAC04) 1 disk £1.50
Clipart 5 - Food 2...........(PDAC05) 1 disk £1.50
Perspex Hypnosis............(PDA037) 1 disk £1.50
Protracker 3....................(PDA046) 1 disk £1.50
Tetrus AGA.....................(PDA043) 1 disk £1.50
Benchmark Tests.............(PDA035) 1 disk £1.50
3 Ways to Stop Smoking...(PDA054) 1 disk £1.50
Clipart 10 pack................(PDAC25) 10 disk £12.50
CD ROM drivers (Ami).......(PDACD1) 1 disk £1.50
CD ROM Bonus Utils........(PDACD2) 1 disk £1.50
Megaball AGA..................(PDA050) 1 disk £1.50
Revelations Slideshow.....(PDA020) 1 disk £1.50
Deejay Crunchers............(PDA049) 1 disk £1.50
Find it..............................(PDA052) 1 disk £1.50
First Fonts Disk 1............(PDAFO1) 1 disk £2.50
First Fonts Disk 2............(PDAFO2) 1 disk £2.50
First Fonts Disk 3............(PDAFO3) 1 disk £2.50

UTILITIES

Amiback Tools..................................£39.99
Amiback Plus Tools Bundle..............£74.99
Directory Opus 4..............................£51.99
GP FAX 2.3 software........................£49.99
Quarterback V6 NEW!.......................£52.99
Latest version of this Fast & Famous HD backup utility.
Prima A600/1200 Hard Drive setup software. This is the best setup software on the market..........£5.99
Quarterback Tools............................£54.99
Quarterback Tools Deluxe.................£64.99
Xcopy Pro inc. hardware..................£25.99

VIDEO AND GRAPHICS

Art Department Pro 2.5....................£145.99
Art Department Scanner software.....£114.99
Brilliance Pro. paint and animation....£149.99
Caligari 24 3D Design and animation..£94.99
Deluxe Paint 3..................................£12.99
Deluxe Paint 4 AGA..........................£39.99
Make Path for Vista..........................£25.99
Mekon Magic....................................£24.99
Real 3D Classic.................................£77.99
Real 3D V2.......................................£389.99
Scenary Animator V4 (3Mb reqired)...£49.99
Video Creator for CD32....................£31.99
Video Director..................................£115.99
Video Master....................................£49.99
Vista Pro 3 (4Mb required)................£45.99

WORD PROCESSING/DTP

Final Copy 2 (UK) Release 2....NEW LOW PRICE!...£48.99
built in outline fonts, full graphics import (IFF and HAM), UK thesaurus, spelling checker & much more.
Final Writer DTP....NEW LOW PRICE!...................£72.99
Penpal 1.4..£29.99
Best selling feature packed word publisher with database
Pagestream 2.2 U.K. version.............£69.99
Pagestream 3 U.K. version................£249.99
Pagesetter 3......................................£42.99
Pro Page V4......................................£109.99
Pro Page V4 & Pro Draw 3.................£159.99
Protext 4.3 W/P................................£39.99
Prowrite 3.3 NEW!............................£45.99
Wordworth 2 AGA inc Print Mgr Special low price! £29.99
Wordworth 3 NEW!......LIMITED OFFER!......£64.99



The incredibly sexy Yamaha Promix 01, is this the future of home mixing?

All



When I was asked to produce an article on setting up a home studio, my initial reaction was to wonder how much hate mail I would receive having sacrificed that sacred cow, the personal opinions of every body who has bought an instrument or piece of equipment for their home studio.

Either way here it is and no matter what I suggest, you should of course use the musicians best friend – ears. This particular studio setup is based around the Amiga 4000-30 in conjunction with Bars & Pipes pro 2.5 and the Sunrise Studio 16 hard disc recording system.

However, most of the advice included is applicable for smaller Amiga setups, right down to the now humble A500.

The choice of B&P pro as opposed to KCS 3.5 or Music X is based on my experience in using all three systems. Of all the systems I have used, and this includes Atari and Mac-based systems, B&P pro is the most powerful by far.

If I had the space I would tell you why, but I don't so I won't – here comes the first mailbag.

I have put together four systems, in most cases a progression on the previous set up and each based on the ability to be expanded in a logical manner, without the need to discard previous purchases.

So many mistakes are made by compromising and buying a cheaper alternative that ends up getting sold later. It is better to wait a few months until you can buy the item you need, that is of course if you can resist the temptation to buy there and then.

Another common problem area is monitoring. Do not buy cheap speakers and a cheap amp – it gives you a false representation of the music and subsequently results in a poor mix.

SPEAKERS

A big studio will have very large speakers and a small cheaper pair as a reference, but all the main mixing will be run through the large speakers.

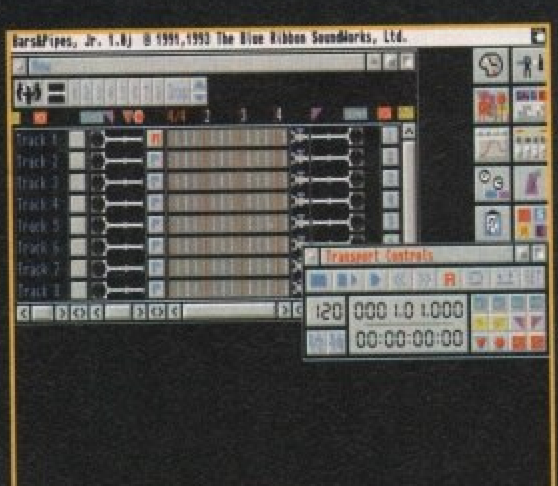
This does not mean you have to buy a big pair of speakers capable of rearranging the furniture, but allow a decent amount of the overall budget for good monitoring.

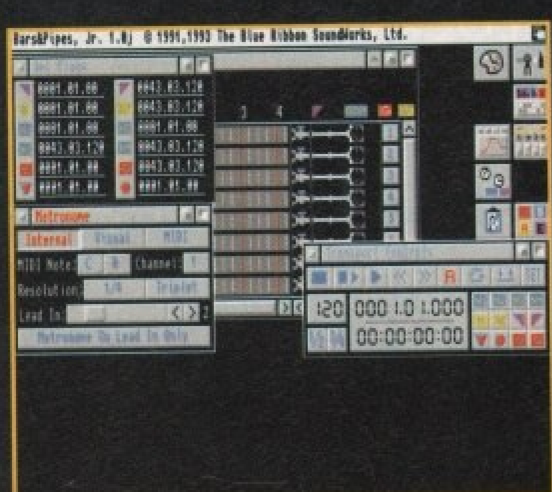
If you can't afford the speakers you would like, buy a good set of headphones for around £100 to £150 to cover you for the short term. These will still be extremely useful in the future for recording at night and checking the mix.

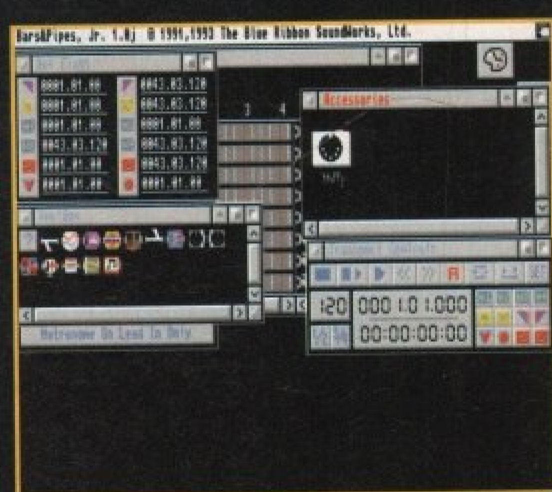
My personal choice are Sennheiser headphones, such as the closed back HD 250 linear 2 or the HD 560 Ovation 2, though once again you should use your ears.

I would also recommend buying a separate keyboard controller rather than a keyboard with a sound source built in. Initially it may seem more expensive, but normally the big keyboard synths are not the greatest controllers and if something should ever go wrong with the keyboard, you have lost both.

There are loads of Keyboard controllers available but at the lower end I would recommend the Roland PC200 as a reliable controller for about £200 –







that jazz

Ever wanted all the sounds and spectaculars of creating music in your own home? Experience it all with this in-depth guide from Andy Bishop



The Mackie 1202 may be a little too small for most people, but ideal for those on very restricted budgets.

however this does not have aftertouch.

Yamaha have a similar keyboard for about £300 which has a slightly higher spec – either of these would be ideal.

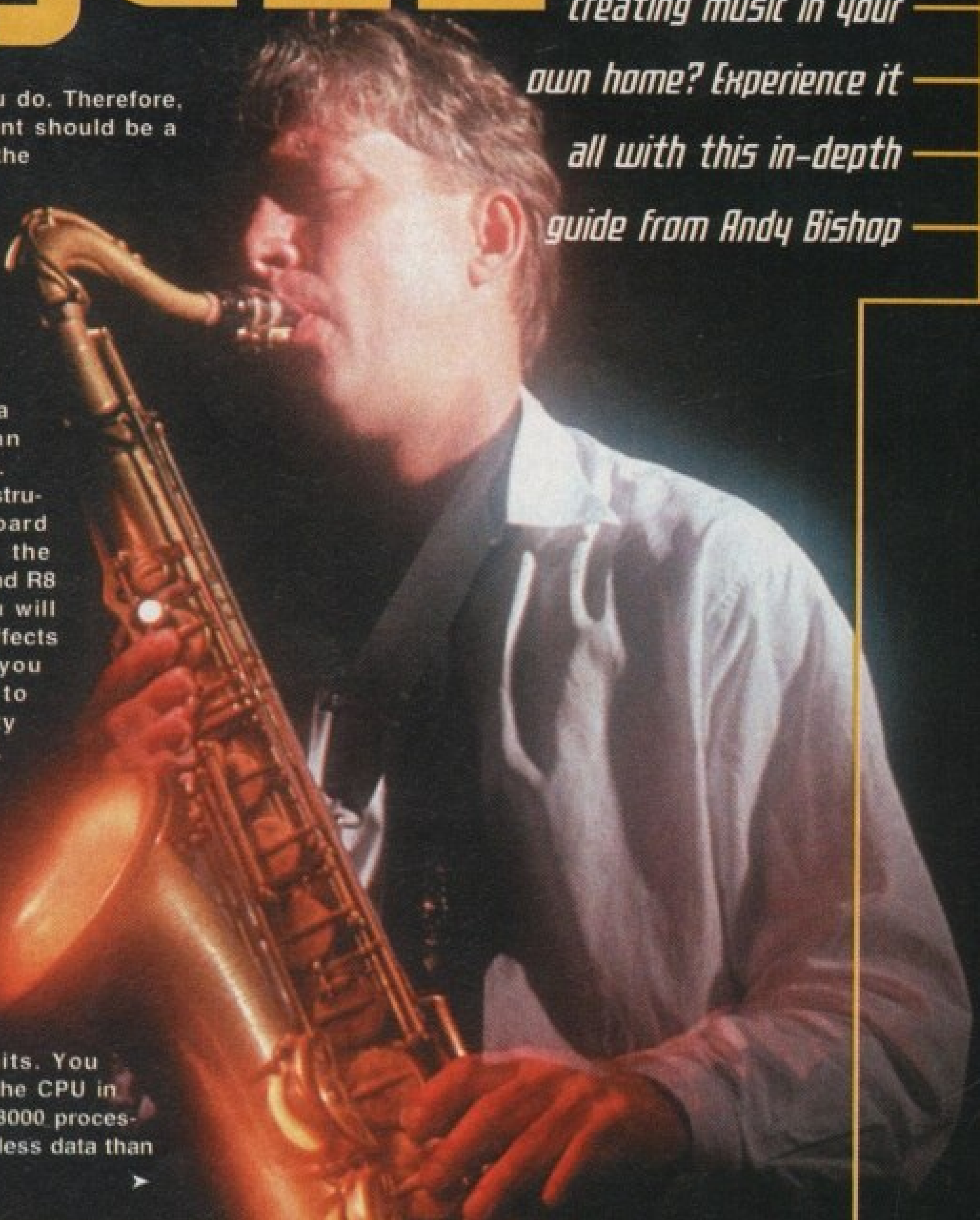
PLANNING

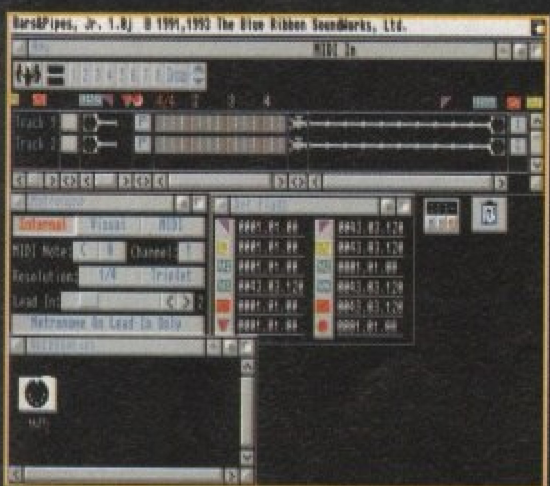
Yet another rule is to give yourself a long-term plan. Create your system so that you can build it in stages. Draw a map of the final long-term studio – from here you should be able to decide the order of buying. I have given below an example of such a plan, but first here are a few tips.

1. One instrument does not need a mixer, but the moment you buy a second instrument you do. Therefore, your first instrument should be a fairly big one like the TG500 because the next purchase will involve having to get a mixer and subsequently will be fairly costly. So the first instrument will need to last a while till you can afford the next stage.

2. If your second instrument has no on-board effects, such as the Proteus 1 or a Roland R8 drum machine, you will also need to buy effects units. Once again you will ideally need to buy a good quality unit first time round, such as a Sony R7 or Yamaha SPX990.

Cheaper units can be very useful but generally handle multiple sound input less well than the bigger units. You can think of it like the CPU in your computer – a 68000 processor can handle a lot less data than ➤







Bars & Pipes Jnr - One of the best music creators for the Amiga range



a 68040.

3. When you buy a mixer you may only envisage needing six inputs (three stereo inputs) plus two band EQ and maybe two effects sends for that R7 or SPX 990. However most people, when setting up a studio, end up having between three and four instruments and at least two effects units.

In theory the six input mixer seems okay. However, if you have a good drum machine you will want to EQ each sound individually, i.e. cymbols snare, bass drum etc, so you will use the individual outs of the drum machine, which will have up to eight outputs – the same applies to the synths. An example is listed below:

R8 drum machine – eight outputs; TG500 – six outputs; Korg O5W – two outputs
Total inputs needed = 16

So once again we have to plan ahead. This will, at times, make things seem impossible, but if you go in blindfolded you will simply have to sell some of your equipment at a large loss, making the overall plan all the more difficult to achieve.

As mixes get bigger EQ is needed more and more to make different bits stand out against other bits. I recommend a minimum of three band EQ ideally, with mid sweeps (what the hell is a mid sweep I here you cry, well believe me if I had the space I would explain it, however all I can say is you need it – trust me).

Korg X3R, one of many good choices as a secondary sound module, however does not sound as good as the older O1W.



Alesis Monitor One Speakers, perfect low cost monitoring and surprisingly accurate.

4. It is very important to decide what your musical aims are. If you are building the studio around songs, you will have to choose a mixer capable of handling tape returns to go to the Sunrise board or at least calculate the inputs needed including the Sunrise option.

A typical mixer of this type would be a Mackie 8 bus mixer, which range from 16 inputs to 32 inputs, and have eight record sends. These mixers are expensive for the home studio, going up to £3999 for the 32 input desk.

However, if you want to produce music that does not need live recording, then perhaps something like the Yamaha 01 Promix would be more applicable, giving 16 inputs with three band parametric EQ, two dedicated effects units, three compressor/limiters and full midi controlled automation (£1899 inc VAT).

These prices may seem expensive, but if your synths are costing up to and around £1000 and are of excellent sound quality, doesn't it make sense not to degrade them with inferior mixers that may add noise.

That said, Mackie do make a superb 16 input mixer for £899 called the 1604 and it has an automation upgrade supported by Bars & Pipes pro 2.5b, but on the down side the automation does add a lot of noise. Anyway back to the plan.

Below is the basic plan in five stages. Each of these five stages is subgrouped with suggested instruments, effect units, speaker options etc:

1. Your Amiga, B&P pro, Sunrise Board and leads etc.
2. Synth 1, headphones, controller keyboard.
3. Synth 2 and 3, mixer, effect unit 1, microphone (optional).
4. Good speakers and amp maybe another synth, DAT recorder (optional).
5. Effect unit 2 maybe 3, single-ended noise reduction, graphic EQ

In turn this should be accompanied by a diagramatic of the current section, with the inclusion of the previous stages and a financial plan and budget of each section.

It is important to read as many reviews as possible to give you a general idea of what to look for. However, reviewers do not always get it right, so at the end of the day trust your ears.

Stage two – part three of the plan

This is the really heavy bit – lots of cash needed here. You should choose one of the mixers highlighted below, along with one of the effect units listed.

I have also put down a few suggestions on second synth modules. You could of course pick an instrument from the list in stage one. However, try to buy a different make of instrument than the one purchased in the earlier stage.

Individual makes tend to have their own sound, i.e. most musicians can tell an EMU Proteus sound or a Roland sound.

You may wonder why I recommend only one low -cost microphone. Well its simply because it stands out as particularly good value against the rest, though others, such as the Shure SM57/SM58, might suit you better for stage work.

Mackie 1202 & Mackie 1604: these mixers are extremely good value and will fit most peoples needs. They are true studio quality and in the case of the 1604 it offers 16 line inputs, three band EQ, six studio quality balanced XLR microphone inputs and a great multi-functional aux effects system.

The Mackie 1604 has a good EQ but no mid sweeps – however, I would still highly recommend it.

Price: Around £500 for the 1202 and £899 for the 1604.

Mackie 8 bus series: this mixer would be the mixer of choice – however, its cost may be too prohibitive for most home studios. That said, its specification is astounding in a mixer of this price.

Specification: between 16 and 32 mic/line inputs, four band EQ with two mid sweeps, six effects sends and 12 returns, optional full meter bridge, stunning noise specification, up to 32 tape returns and a mix B option which doubles the number if inputs on mix down.

The desk also features full in-place solo and individual channel mutes, along with really smooth faders and of course an eight channel recording bus – stunning.

Price: 16 - 8 - 2 = £1600 approx; 24 - 8 - 2 = £2400 approx;
32 - 8 - 2 = £3500 approx.

Stage one – part two of the plan:

Choose one of the following instruments in conjunction with items mentioned in the overall system overview relating to stage one:

Yamaha TG500 Specification: 64 note polyphony; 16 part multi-timbral; six outputs; two multi effects units built in.
Price: RRP £1099, can be purchased for as low as £799.
Comment: Great as a first instrument and as part of a bigger set up. As with most instruments it will take a while to learn how to use, but with 64 note polyphony it should enable you to put together multi-timbral pieces without running out of notes.

Korg 05W Specification: 32 note polyphony; 16 part multi-timbral; two outputs; two multi effects units built in.
Price: RRP £599.
Comment: Excellent sounding half rack unit with really big sounds. However, the 05w has only two outputs which could be a bit limiting in the long-term, though as part of a bigger system would not cause too many problems.

The 32 note polyphony may be a little limiting for those bigger pieces. In some ways I prefer the sound of this unit to the TG500, but the Yamaha instrument gets ahead on multi-timbrality and the six outputs and the sounds are still very good.

Proteus FX Specification: 32 note polyphony; 16 part multi-timbral; two outputs; two multi effects units built in.
Price: £500
Comment: Wow the proteus – still here, still cool. This new version, updated with inbuilt special effects and sounds from the Proteus 2, has about the best sound samples around – ideal for real instrument sounds, though it includes synth type sounds as well.

In a big multi-timbral setup it is a fantastic asset, offering a certain realism to the mix. However, the proteus has a unique sound and may be a little easier to recognise when its stand alone.

This said, I have a Proteus 1 & 2 as part of my set up and would highly recommend it. They are also the easiest synth modules to program I have ever used.

Overall stage one comment: This system is very basic, but gives you a good base on which to build your studio. There are, of course, other instruments worth considering such as the Roland Sound Canvas and Yamaha TG300. (Also included in this set up is the Roland PC200 and Sennheiser HD 560 Ovation 2 headphones).

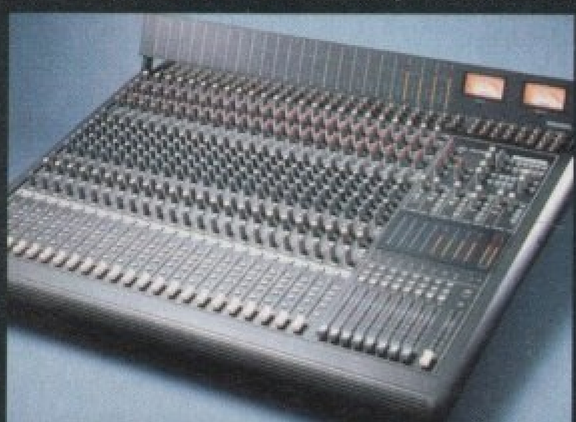
Stage one budget (excluding Amiga B&P pro and Sunrise Studio 16 & MIDI port & MIDI leads) includes one sound module, a controller keyboard and headphones, totalling around £1110.

➤



Yamaha Promix 01: for the musician who does not need the live recording flexability of the Mackie, this mixer represents absolute state-of-the-art mixing at an incredibly low price.

I would go as far as to say this is a revolutionary mixer that is going to change the face of home studios for ever. An absolute must for anybody who wants total midi control over all mixing parameters on mix down.



Mackie 24-8-2, the perfect choice for those who need tape sends

Specification: 16 channel inputs with six balanced microphone inputs. full digital internal processing and 105db of headroom to work in. 36-bit three band parametric EQ.

Four effects sends built in, two of which are hard wired to two SPX 990 quality effects units all working in full 24-bit. Three dynamics processors built in. Full motorised faders on each channel.

A digital output for mastering to DAT. All inputs use 20-bit A to D converters with 64 times over sampling and 20-bit eight times over sampling on the way out – in a word gobsmacking.
Price: £1899.

Special effects units

Sony R7 reverb unit: opinions on reverbs vary dramatically but the Sony R7 really is an excellent unit. This reverb is incredibly smooth and powerful and is my first recommendation for a major reverb.

The Sony R7 has been overlooked by many people in preference for more established manufacturers in special effects, such as Yamaha and Lexicon. However, having used it fairly extensively in the last year, I would say that it is quieter and more flexible than other similar-priced units.
Price: £900 approx.

Lexicon LXP15: a classic reverb sound at a reasonable price. Also included in this range is the LXP1, the predecessor to the LXP15. Either of these would be a good choice, though they are both noisier than the Sony.
Price: Approx £799 for the LXP15; approx £399 for the LXP1.
Cheaper alternatives could include the Boss SE70 or perhaps the Alesis range of reverbs, including the classic Quadraverb.

Microphones: well actually microphone, because I will only recommend one, the AKG C1000s. While there are many microphones that are better, such as the Beyer MC740, the AKG C1000 has the most accurate sound of any microphone under £600 and subsequently has to be the overall microphone of choice. It is great for vocals, speech, and even acoustic instruments.
Price: £229 RRP.

Other instruments worthy of recommendation are the Alesis Quadrasynth, Korg X3R, Roland R8 drum machine and the Ultra Proteus, all of which I do not have space to write about.
Price: Wavestation SR approx £990; Roland R8 approx £499.

Heading required

Studio One

Yamaha TG500 Sound Module	£800
Sennheiser HD560 Ovation headphones	£110
Roland PC200 Controller Keyboard	£200
Total	£1110

Studio Two

Yamaha TG500 Sound Modul	£800
Korg Wavestation SR Sound Module	£990
Roland R8 Drum machine	£499
Mackie 1604 Mixer	£899
Sony R7 Reverb unit	£900
Sennheiser HD 560 Ovation headphones	£110
Roland PC200 Controller Keyboard	£200
AKG C1000s Microphone	£230
Total	£4628

Studio Three

Yamaha TG500 Sound Module	£800
Korg Wavestation SR Sound Module	£990
Roland R8 Drum Module	£499
Proteus FX Sound Module	£500
Mackie 8 bus mixer	£2400
Sony R7 Reverb unit	£900
Lexicon LXP 1 Reverb unit	£399
Sennheiser HD 560 ovation headphones	£110
Audiolab 8000A Amplifier	£450
Alesis Monitor One Speakers	£399
Symetrix 511A Noise reduction	£350
Alesis MEQ 230 dual 30 band EQ	£230
Sony TCD D3 DAT player	£450
Roland PC200 Controller Keyboard	£200
AKG C1000s Microphone	£230
Total	£8907

The Alternative Studio (based around the Yamaha Pro Mix 01 and my personal choice)

Studio Three

Yamaha TG500 Sound Module	£800
Korg Wavestation SR Sound Module	£990
Alesis Quadrasynth	£1499
Roland R8 Drum Module	£499
Proteus FX Sound Module	£500
Yamaha Pro Mix 01	£1899
Sony R7Reverb unit	£900
Sennheiser HD 560 ovation headphones	£110
Audiolab 8000A Amplifier	£450
Acoustic Energy AE1 Speakers + stands	£1200
Symetrix 511A Noise reduction	£350
Alesis MEQ 230 dual 30 band EQ	£230
Sony TCD D3 DAT player	£450
Roland PC200 Controller Keyboard	£200
AKG C1000s Microphone	£230
Total	£10307

All for a price

Choosing an amp and speakers is always a difficult thing – should I buy a Quad, or should it be a Yamaha or perhaps a Carver. Well here goes another sacred cow.

My choice of amp is based around two factors. Firstly, the amp does not need to be extraordinarily powerful for the home studio and secondly, it does need to be flexible and accurate in sound.

For this reason I have chosen the Audiolab 8000 A amplifier. It of course can be used as part of a HiFi set up, but more importantly it gives a superb sonic performance in the home studio set up – incredibly accurate.

For the speakers I would choose the Alesis Monitor One, a great sound at a good price point and they are very well made.

While these would be my choice for a home studio, the more ambitious studio might look towards the Acoustic Energy AE1, or the low end Genelec speakers.

I would not on the other hand recommend Yamaha NS10s. They might be alright as secondary speakers, but they are unsuitable for main monitoring.

Amplifiers and speakers

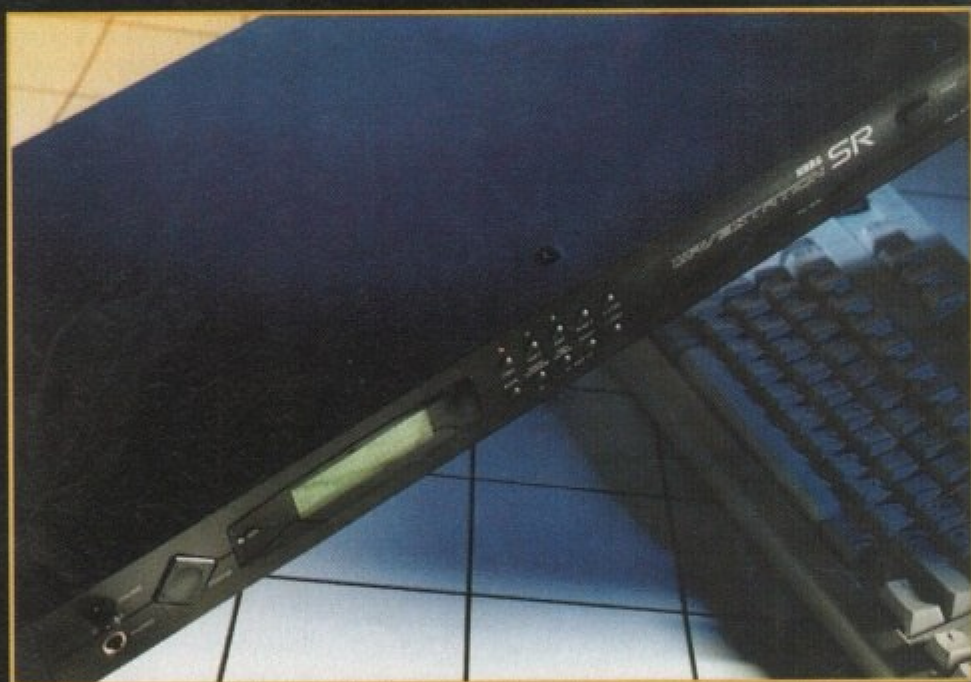
Alesis Monitor One – price: approx £399 a pair.
Audiolab 8000 A amplifier – price approx £450

As for any further instruments, I would recommend any of the sound modules I have mentioned earlier. DAT players on the other hand fall into two categories – those with SCMS (Seriel Copy Management System), these are generally designed for the home market, and those without SCMS, that are primarily designed for the pro market.

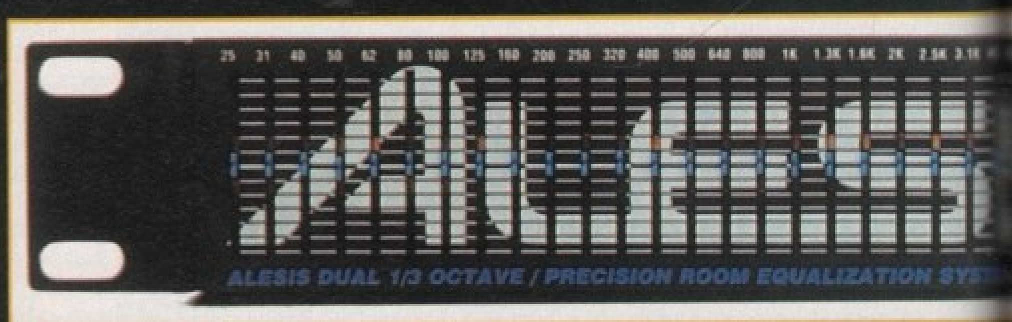
If you read a lot of HiFi magazines, your opinion might be that DAT is not that great – these magazines even suggest that it is not as good as CD – wrong.

DAT is used for mastering most of the CDs you hear today, so that scuppers that argument. The only thing wrong with DAT is that it will show up any hiss in the audio chain, as it is inherently silent.

My choice would be to go for a Sony portable DAT like the TCD D3 or D7, it



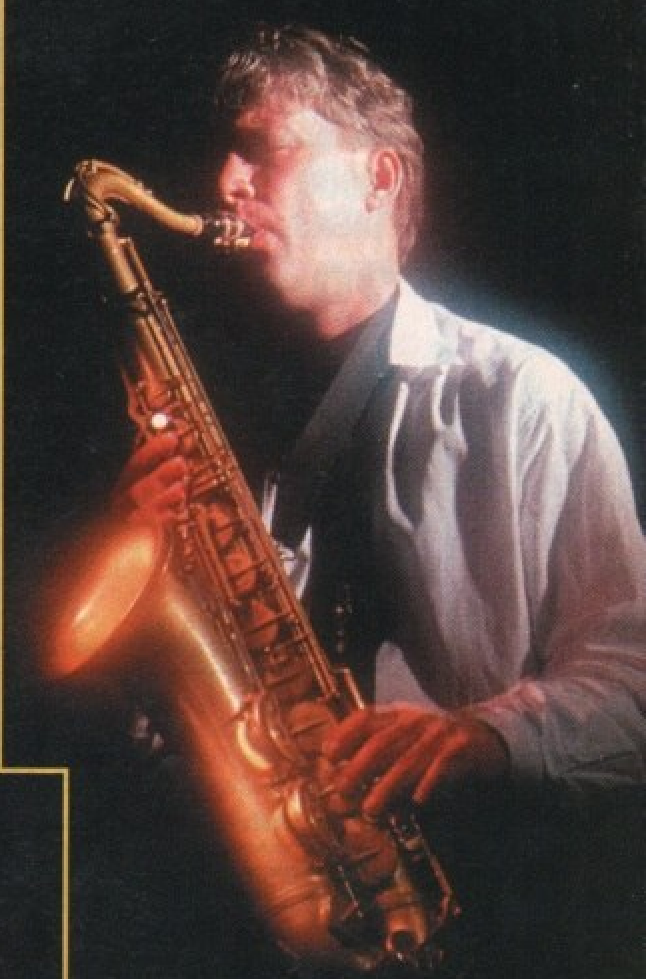
The Wavestation SR my personal favourite of all today's synths.



Alesis MEQ 230, an essential item at the end of the recording chain.



The Mackie 1202 may be a little too small for most people, but ideal for those on very restricted budgets.



may have SCMS, but it makes no difference to the mastering quality whatsoever and sounds fantastic.

Sony TCD D3 – price: £499

As for part five of the plan, this really is the luxury department. Once again I would choose one of the effects mentioned earlier, but for critical equipment still needed, I would have to recommend the following items – Symetrix 511A or Drawmer DF320 Noise Reduction Units

Both of these units are absolutely essential finishing touches to the home studio. They are both single-ended noise reduction systems and subsequently do not need any decoding, unlike Dolby A,B,C and S noise reduction systems.

Both are fairly easy to use and make a massive difference to the finished mix. Price: between £300 and £450

Alesis MEQ 230 dual 30 band EQ.

Often, even with the best of equipment and control rooms, EQ is still needed and can be great for adding that extra bit of punch and sparkle. As with the noise reduction units, I would highly recommend one of these units to be used at the end of the recording chain, just before the DAT player.

Well that's it then – my recommendation for the perfect home studio (if there is such a thing). As with all these items, personal preferences will play a part in your buying decisions, but hopefully this article will serve as a guideline and, if nothing else, get you thinking.

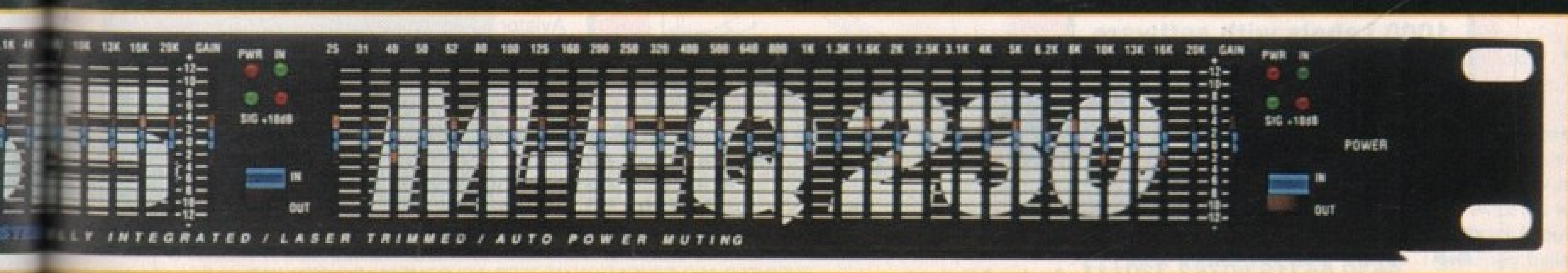
No one person's view should be treated as gospel, so try out these suggestions and don't listen too much to the salesmen. Finally, whatever you do, remember to have fun, because at the end of the day, that is what it is all about.

All prices are based on magazine prices and not necessarily on RRPs.

All items should be found in most good music shops around the country. Bars & Pipes pro 2.5 and the Sunrise AD516 & Studio 16 hard disk recording system are available through Premier Vision on 071-721 7050.

For a limited time only, the Sunrise Board will be offered at £999 inc VAT – its RRP is £1299. Bars & Pipes Pro 2.5 can be purchased at £199 inc VAT – its RRP is £299.

Often, even with the best of equipment and control rooms, EQ is still needed and can be great for adding that extra bit of punch and sparkle.



OPEN ALL HOURS

WELL, NEARLY!
9am-10pm Mon-Sat
10am-6pm Sunday

SPECIAL OFFERS!!

DSDD DISKS	100 DISKS + 100 CAP BOX
29p	£31.99

2.5" HARD DRIVES FOR A600/A1200

60 MEG	£139
80 MEG	£189
120 MEG	£199
258 MEG	£259
344 MEG	£309

All hard drives include full fitting kit & instructions

A1200 RAM EXPANSIONS

2Mb	£109.95
4Mb	£174.95

Features battery backed clock and socket for optional FPU

PRINTERS & RIBBONS

Star LC100 Colour	£134.00
Star LC24-30 + Auto Sheet Feeder	£209.00
Seikosha SP1900 9 Pin Mono	£119.00
Seikosha SL95 24 Pin Col	£189.00
HP310 Colour Inkjet	£219.00
HP310 + Auto Sheet Feeder	£269.00
Star LC24-200 Colour	£274.00

WE STOCK A WIDE RANGE OF RIBBONS AT LOW PRICES – PLEASE CALL

LEADS & CABLES

Printer	£3.99
Serial	£4.99
Null Modem	£5.99
Joystick Extender 3 metre	£3.99
Joystick/Mouse Extender	£3.99
Amiga to SCART	£7.99
Amiga to 1084S/8833	£7.99
Analog Joystick Adapter	£4.99
4 Player Adapter	£5.99
Parnet Cable	£8.99

LOOK! LOOK! LOOK!

TRACTORFEED DISK LABELS

Now you can print your own professional disk labels! 500 Plain white disk labels on tractor feed, complete with FOUR disks of software and artwork.

Yours for ONLY £9.95

1000 Labels with software ONLY £13.50

AMIGA HARDWARE

A1200 Race and Chase Pack	£289.95
A1200 Desktop Dynamite	£329.95
CD32 + Software	£249.00
Amiga A4000	£Phone
Microvitec 1438 Monitor	£295.00
Cubscan 1440 Multisync	£399.95
External Floppy + Virus KIller	£56.95
A500 Internal Floppy Drive	£48.95
A500 512K Ram Exp. + Clock	£23.50
A500 1.5 Meg Ram Exp.	£76.95
A500+ 1 Meg Ram Exp.	£29.00
A600 1 Meg Ram Exp.	£29.00
A1200 2 Meg Ram Exp+Clock	£109.95
A1200 4 Meg Ram Exp+Clock	£174.95
A500/A600/A1200 Power Supply	£29.95

DISKS & LABELS

All disks are supplied with labels. UNBRANDED DISKS are 100% error free.
In the unlikely event that any of our disks are faulty, then we will replace the disks **AND** reimburse your return postage!

3.5" DSDD Grade A	£0.37 each
3.5" DSDD Grade B	£0.29 each
3.5" Rainbow	£0.44 each
3.5" DSHD	£0.58 each
3.5" DSDD Fuji (box of 10)	£4.90
3.5" DSHD Fuji (box of 10)	£8.90
5.25" DSDD Fuji (box of 10)	£2.50
5.25" DSHD Fuji (box of 10)	£4.90
1000 3.5" labels	£6.50
1000 3.5" tractorfeed	£8.50

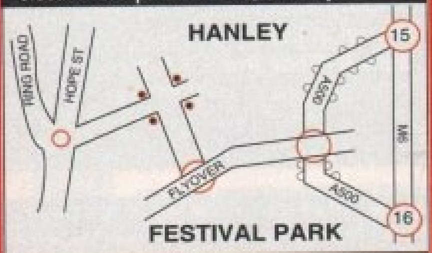
STORAGE BOXES

Most types are available for 3.5" or 5.25" disks.

10 capacity	£0.95
20 capacity	£1.95
40 capacity	£3.49
50 capacity	£3.95
100 capacity	£4.50
80 capacity Banx drawer	£8.49
150 capacity Posso drawer	£15.95
200 capacity drawer	£11.95

VISIT OUR SHOP

9.30am - 5.30pm Mon - Sat, 9am - 1pm Thurs



MISCELLANEOUS

Mousehouse	£1.80
Mousemat 9mm thick	£2.50
Diskdrive cleaner	£1.80
A500 Dustcover	£3.50
A600 Dustcover	£3.50
A1200 Dustcover	£3.50
Monitor Dustcover	£3.50
LC20 Dustcover	£3.50
LC100 Dustcover	£3.50
LC200 Dustcover	£3.50
LC24-200 Dustcover	£3.50
Roboshift	£13.95
Amiga Lightpen	£29.95
Optical Mouse	£32.00
Manhattan Mouse	£9.99
Megamouse II	£11.95
Megamouse 400 DPI	£12.95
Point Mouse	£12.95
Alfadata Trackball	£26.95
Crystal Trackball	£32.00
Zydek/Truedox Trackball	£25.95
Zyfi Amp/Speakers	£34.95
Zydek Pro Speakers	£49.00
Action Replay Mk III	£56.95
Midi Master	£26.00
Tilt/Turn Monitor Stand	£9.95
2-piece Printer Stand	£3.49
Metal Printer Stand	£8.99
A4 Copyholder	£5.99
Metal Angle Poise Copy Holder	£14.95
A500/A600 ROM Sharer	£14.95
V1.3 ROM/V2.04 ROM	£25.95
Microperf Tractorfeed Paper: 500 sheets	£4.50
2000 sheets	£14.95

JOYSTICKS

All joysticks have autofire feature except those marked *.

Trigger Grip Models

Quickshot turbo	£6.95
Python 1M	£7.95
Jetfighter	£11.95
Topstar	£18.95
Sigma Ray	£14.95
Base Fire Button Models	
Maverick 1M	£12.95
Megastar	£21.50
Zipstick	£11.95
Comp Pro 5000*	£10.95
Comp Pro Extra	£12.95
Comp Pro Star	£12.95
Cruiser Multicolour*	£9.95
Advanced Gravis Black	£24.95
Advanced Gravis Clear	£27.95
Comp Pro Star MINI	£14.95
Aviator 1 Flightyoke	£22.95
Handheld Models	
Speedking	£10.50
Navigator	£13.95
Bug	£11.95

ANALOG JOYSTICKS

These Joysticks will fit any Amiga

Warrior 5	£14.95
Saitek Megagrip 3	£19.50
Speedking Analog	£13.95
Intruder 5	£25.50
Aviator 5 Flightyoke	£27.50

Adaptor to use any PC analog joystick on an Amiga ONLY £4.99

Direct COMPUTER SUPPLIES

0782 206808 - *Anytime*
0782 642497 - *9.00am-5.30pm Weekdays*
0630 653193/0782 320111 - *Evenings & Weekends*

BUSINESS HOURS
9am to 10pm Mon-Sat, 10am to 6pm Sun
All items and offers subject to availability. E&OE
Postage £3.30 Next Day £3.75
We accept POs, cheques & credit cards
Please write Cheque Card Number on cheque for instant clearance

BUSINESS AND EDUCATION ORDERS WELCOME All Prices Inc VAT

DIRECT COMPUTER SUPPLIES 36 HOPE STREET, HANLEY, STOKE-ON-TRENT ST1 5BS

THE Devil's Advocate

Biting the bullet

With Commodore filing for bankruptcy, everyone is wondering what will happen to the once great company. Adam Phillips talks to David Pleasance about the past, present and future

It's a regular and unfortunate business practice – glossing over the truth. On the edge of bankruptcy? "Never mind, just a setback, sales are excellent, we've achieved record figures this year."

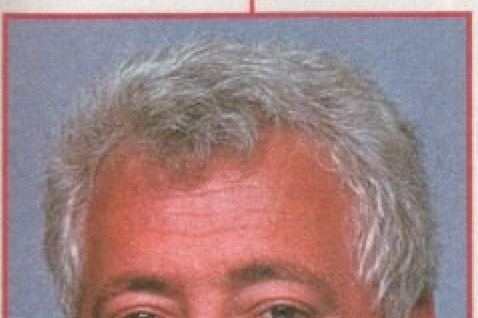
While viewing sales figures publicly through rose-tinted spectacles is exceptionally important for the PR success of any industry, there's always one group of people who are left behind in the aftermath of a failed company, licking their wounds and wondering what can be learnt from the expensive experience.

This group, a sometimes overlooked and underestimated clan of different genders, colours and creeds, are the buying public. Bought a CD32 recently? Feeling a little worried that your hard earned cash might have been more useful flushed down the toilet?

When any company sinks into financial obscurity, it has a knock-on effect throughout the industry – customers lose faith and decide that the original nagging doubts about buying a pricy piece of hardware were well placed after all. Subsequently, they don't want to invest any more and everyone loses out.

But in Commodore's case, what if you're a potential buyer of a 1200 and a CD drive – is it really a wise move to buy one of the company's machine?

What about existing owners? Have they really wasted their money on a computer with no future? The Devil's Advocate winged its way down to the company's headquarters to talk to the UK's managing director, David Pleasance.



David Pleasance, MD of Commodore UK, the eternal optimist. "I've been through some bad times as well as good and for me, this is a small hiatus – it's not a major setback"

Q After the recent collapse of Commodore, can 1200 and CD32 owners feel confident in buying future Amiga equipment and receiving full support from the manufacturers?

A I don't think support is an issue because we do have very good arrangements, particularly with the likes of ICL who are doing a tremendous job of supporting our products.

As we stand at the moment, it is our belief that Commodore will be purchased as a going concern. Therefore, if anything, the prospects for Commodore will be infinitely better than they have been for quite some time.

> "The launching of products like the 500+ and 600 virtually on top of each other were not good decisions"

Q What do you feel brought about the downfall of Commodore?

A I believe we should never have gone into the DOS market and the decision to get out of it came after we had had two years of really losing money. I think we needed to have a more logical and coherent product development strategy than we had.

By that I mean the launching of products like the 500+ and 600 virtually on top of each other were not good decisions. I think it was the general direction of the company and also the investment made in trying to enter markets that were not ideal for Commodore – these have all contributed to the position where Commodore lost a lot of money.

Q Do you feel that Commodore UK played a part in the company's financial demise?

A The UK market for Commodore has been a profitable operation for several years now – in fact, one of the most buoyant markets for Commodore. During periods of last year and six months of the year before, the UK branch was the biggest contributor to Commodore world-wide.

So, in terms of us playing a part, I'd say definitely not.

Q What are your plans now for Commodore UK?

A As far as I am concerned, it's business as usual. I've had the fortune of being with Commodore for virtually 11 years now and I've been through some bad times as well as good times. I see this as a small hiatus – it's not a major setback. I genuinely believe ➤

that if Commodore is purchased it will be the best thing for the company, because there is no doubt that we are now significantly leaner and meaner than ever before.

If the right partners are involved in Commodore and are prepared to listen to the people in the subsidiaries that have survived, then I think our opportunities and future prospects are particularly bright.

My personal belief is that the UK company is currently in the best shape it's been in for many years. I think we are poised for a tremendous Christmas period and it really all depends on getting a company to buy Commodore as a going concern and to enhance the manufacturing facility.

Once that happens, I will be very confident. As far as the personal situation is concerned, at this moment in time – foolishly or otherwise – I'm not looking for other work.

Q Who are the potential buyers for Commodore?

A There are three or four serious contenders. My belief is that one of those is a clear favourite and it could even be in the next 48 hours or so. I can't possibly comment on who it might be – it's very unfair to any potential purchaser to speculate because it can definitely have an adverse effect on any negotiations.

The last thing I want to do is upset any opportunity for this company to be bought which will therefore secure the jobs for the people who work here.

Q Who would you like to see buying Commodore ideally?

A Me, I can't afford it, but I would love to be able to run it though. Ideally, I'd like to see a company that is in the consumer electronics business but not in our market. One that has good manufacturing facilities, good R&D and that has some channels to market.

I think the benefits that any company would get from the purchase of Commodore are (a) adding a whole new range of products to their portfolio and (b) taking advantage of what is probably the best distribution channel in Europe.

Take the UK alone. If you walk down Slough High Street – that's ten minutes from here – you'll find Commodore products in 30 shops. That's the kind of marriage I would be looking for in terms of a buyer of the company. However, that's the ideal position and we may not always get our ideal situation.

I really believe the Amiga technology is far too good and far too well supported to be lost over the next few weeks because of a company that's got itself into financial trouble.



For sale: CD-based console with one previous financially-clumsy owner

> Software support has in no way abated and I don't see it abating for quite some time yet

Q If there is a buyer in the pipeline, how long before 1200s and 4000s are back in production?

A They would get back into production very quickly. I would envisage us getting supplies in time for the September season. There is a pool of products available to the subsidiaries at the moment – you've got Commodore UK, Germany, Italy and Scandinavia. Between all of us, we're looking after all the European countries.

We also have a pool of products available and are selling as and when we need them. My belief is that we can last until September when new product supplies arrive and, at present, we're taking advantage of the fact that this is the quiet period. I think we'll be okay...

Q How do you feel about the new 1200 CD Drive? There have been rumours that you're not entirely happy with the lack of FMV.

A While I'm still not happy about the lack of FMV, it's something which is technically not possible to do. The PCB on the 1200 doesn't have the gate array that's on the CD32 PCB, so there is no way of running full motion video. My concern has always been that while, at present, most 1200 owners will say "it doesn't matter about full motion video", I believe that as soon as the first fully-interactive game is released that uses FMV, the owners of the CD1200 will then say "hey, this doesn't work, we're not happy".

Q Do you feel that FMV-specific game development will be hampered because of the CD1200? Why develop for FMV which is a relatively small market at the moment when you can develop for both the CD32 and CD1200?

A I agree with what you're saying except we already know what is under development. I'm certain some companies are already starting to port their PC development on to CD32 because, unlike most Amigas, the machine was designed to be able to take the graphics from a PC and display it in the chunky planar mode.

These products under development will become more and more available, but I guess, in some ways, it could be perceived a drawback to the developers that the CD1200 doesn't support full motion video.

I think they will realise that the CD32 is a big market in its own right and FMV, even without the interactive games content, is going to be a huge market.

It's going to be a bigger market than the games market anyway – we believe very strongly that music video CDs will be an enormous success.

Q Finally, are there any promises you'd like to make to existing Commodore machine owners?

A The only thing we can say to them is that we are totally aware of the development schedule that the software publishers are currently undertaking. It's pretty extensive – between now and September, there will be 60 more titles absolutely guaranteed.

This is not just hear-say like when we first launched the CD32. We've actually seen work in progress and there are definitely 60 titles coming out plus an additional 40-odd FMV titles.

From these products which have been developed specifically for the CD, there are some super 1200 products coming as a direct derivative. I guess the only promise I can make is that the software support has in no way abated and I don't see it abating for quite some time yet

Thank you for your time.

If you have any comments or opinions on this month's interview then send them into the usual address for the Devil's Advocate's attention.

QUALITY PERIPHERALS FOR THE AMIGA

AMITEK

FRIENDLY TECHNOLOGY

Designed to bring you high quality and performance at affordable prices, AmiTek peripherals offer outstanding value-for-money. They are built to ensure easy fitting and trouble free operation - making them a pleasure to use. AmiTek products are also thoroughly tested and very reliable, so reliable that we are pleased to offer a full two year warranty on the AmiTek products detailed here.

RAM UPGRADES

AMITEK FOR A500/A500PLUS/A600 - 2YR WARRANTY

CODE	DESCRIPTION	INC VAT
RAM 0505	A500 - 512K (No Clock)	£20
RAM 0510	A500 - 512K (With Clock)	£25
RAM 0520	A500PLUS - 1Mb RAM	£30
RAM 0605	A600 - 1Mb (No Clock)	£30
RAM 0610	A600 - 1Mb (With Clock)	£40

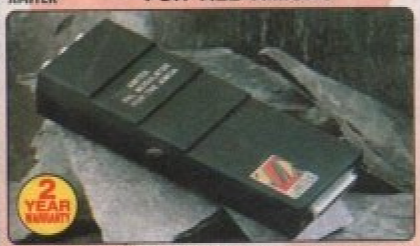
PCMCIA CARDS

AMITEK FOR AMIGA 600/1200 - 2YR WARRANTY

CODE	DESCRIPTION	INC VAT
RAM 6020	A600/1200 - 2Mb Card	£119
RAM 6040	A600/1200 - 4Mb Card	£179

MODULATOR

AMITEK FOR ALL AMIGAS



The AmiTek External Modulator makes an ideal replacement modulator for all Amiga owners. Everything needed is supplied. Like all AmiTek peripherals, it comes with an easy to follow manual.

- User friendly manual included
- High quality design
- FREE RF cable supplied

MODULATOR **£34** INC VAT - MOA 4200

AMITEK HAWK RAM UPGRADE & MATHS ACCELERATOR

FOR THE AMIGA 1200



Maximise the processing power of your standard A1200. Be ready for the new generation of software which makes more demands on Amiga memory and technology. The AmiTek Hawk RAM expansion includes up to 8Mb fast 32-bit RAM, the ability to support a sophisticated 68882 FPU (Floating Point Unit - drastically increases the speed of maths intensive operations) and a battery backed up clock. Built to a high standard, this board can be easily installed and comes with a 2 year warranty. The Hawk RAM board is available in 9 pre-configured versions enabling you to select the model which best suits your requirements.

INCREASES OPERATION BY UP TO 40X

FPU Speed Comparison in FLOPS (FLO Point operations per Second) Figures from AIBB version 6.1

	Amiga 1200	33MHz FPU 4Mb RAM	40MHz FPU 4Mb RAM
FLOPS	1.0	38.56	40.27

- Plugs straight into A1200 trapdoor - No soldering required
- Upgradeable FAST RAM board to 1, 2, 4 or 8Mb
- Uses industry standard socketed SIMMs for easy upgrades
- Two types of optional Floating Point Unit - 33MHz or 40MHz PLCC 68882 co-processor
- Comprehensive manual with illustrations
- Works with all A1200 and A1200HD computers
- Does not invalidate your A1200 warranty
- 2 year warranty

	NO FPU	33MHz FPU	40MHz FPU
1Mb RAM	£99	£159	-
2Mb RAM	£139	£199	-
4Mb RAM	£199	£259	£299
8Mb RAM	£399	-	£499

PRICES FROM ONLY

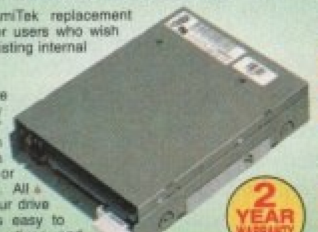
1Mb RAM, NO FPU **£99** INC VAT - RAM 1210

1Mb INTERNAL FLOPPY DRIVES

AMITEK FOR AMIGA 500/500PLUS & AMIGA 600/1200

These internal AmiTek replacement drives are ideal for users who wish to replace their existing internal drive.

The packs feature a high quality internal 1Mb 3½" drive mechanism for the Amiga 500/500PLUS or Amiga 600/1200. All you need to fit your drive is included, plus easy to follow fitting instructions and 24 months warranty.



2 YEAR WARRANTY

A500/A500PLUS INTERNAL DRIVE **£44** INC VAT - DRI 3600

A600/A1200 INTERNAL DRIVE **£44** INC VAT - DRI 3605

AMITEK 1Mb SONY® 3½" DELUXE FLOPPY DRIVE

FOR ALL AMIGA COMPUTERS

SONY MECHANISM



'Amitek's new disk drive combines an elegant design, high build quality and smooth performance in a very affordable package. Highly recommended'. Jason Holborn - Leading Amiga Journalist

DELUXE FEATURES

The AmiTek drive has been specially designed to meet the needs of Amiga users and has many deluxe features which are not included in other drives - check out the competition!

ANTI-CLICK

The anti-click feature stops your drive from making lengthy whirs and clicks that occur when the drive is empty and searching for a disk.

ANTI-VIRUS

The switchable Anti-Virus mode stops track 0 viruses infecting the disk while in the drive. Yet, unlike many other drives which have virus killers, this Anti-Virus mode can be disabled, allowing some fussy copy protected software to run.

ADD ADDITIONAL DRIVES

As a double sided mechanism, the AmiTek drive gives 880K of disk space after formatting. It is also daisy-chainable, which means that you may add further drives to your system and, uses very little power from your Amiga.

HIGH QUALITY SONY MECHANISM

AmiTek took the time to source a mechanism that has all the features, quality and reliability that Amiga owners have been crying out for. After vigorously testing Sony's mechanism, it proved to be the best by far available.

Details taken from models available MARCH '94	ANTI-CLICK	ANTI-VIRUS	ROBUST STEEL CASE	QUALITY SONY MECHANISM	TOP RATED CU-AMIGA MAY '94 90%	2 YEAR WARRANTY
AMITEK	✓	✓	✓	✓	✓	✓
CUMANA	–	–	–	–	–	–
ZAPPO	–	–	✓	–	–	–

- High Quality 3½" Sony Mechanism
- Strong Metal Casing
- Built-In Anti-Click Feature
- Switchable Anti-Virus Mode
- Enable/Disable Switch
- 75ms Access Time
- Daisy Chainable Via Thru Port
- Low Power Usage
- No Need For External PSU
- 2 Year Warranty

EXTERNAL DRIVE **£59** INC VAT - DRI 1159

THE SILICA SERVICE

SILICA 1978 15 1993 YEARS SERVICE TO YOU

Before you decide when to buy your new Amiga products, we suggest you think very carefully about WHERE you buy them. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or software, or help and advice. And, will the company you buy from contact you with details of new products? At Silica, we ensure that you will have nothing to worry about. With our unrivalled experience and expertise, we can meet our customers' requirements with an understanding which is second to none. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Service".

- **FREE OVERNIGHT DELIVERY:** On all hardware orders shipped in the UK mainland (there is a small charge for Saturday delivery).
- **TECHNICAL SUPPORT HELPLINE:** A team of technical experts will be at your service.
- **PRICE MATCH:** We match competitors on a "Same product - Same price" basis.
- **ESTABLISHED 16 YEARS:** We have a proven track record in professional computer sales.
- **PART OF A £50M A YEAR COMPANY:** With over 300 staff - We are solid, reliable and profitable.
- **BUSINESS + EDUCATION + GOVERNMENT:** Volume discounts are available. **Tel: 081-308 0888.**
- **SHOWROOMS:** We have demonstration facilities at all our stores.
- **THE FULL STOCK RANGE:** All of your computer requirements are available from one specialist supplier.
- **FREE CATALOGUES:** Will be mailed to you, with special reduced price offers, as well as details on all software and peripherals.
- **PAYMENT:** We accept most major credit cards, cash, cheque or monthly terms. (APR 29.8% - written quotes on request).

SILICA

12001107-4

MAIL ORDER PLUS TECHNICAL AND HEAD OFFICE 081-309 1111

1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX

PLUS BRANCHES AT:

BRISTOL	Debenhams - (3rd Floor), St James Barton	0272 291021
CARDIFF	Debenhams - 46-50 St. David's Way	0222 399789
CHELMSFORD	Debenhams - (2nd Floor), 27 High Street	0245 355511
CROYDON	Debenhams - (2nd Floor), 11-31 North End	081-688 4455
GLASGOW	Debenhams - (5th Floor), 97 Argyle Street	041-221 0088
GUILDFORD	Debenhams - (3rd Floor), Millbrook	0483 301300
HULL	Debenhams - (2nd Floor), Prospect Street	0482 25151
IPSWICH	Debenhams - (2nd Floor), Westgate Street	0473 221313
LONDON	52 Tottenham Court Road	071-580 4000
LONDON	Debenhams - (3rd Floor), 334 Oxford St	071-493 3735
LONDON	Selfridges - (Basement Arena), 369 Oxford St	071-629 1234
LUTON	Debenhams - (1st Floor), Arndale Centre	0582 21201
MANCHESTER	Debenhams - (3rd Floor), Market Street	061-832 8666
PLYMOUTH	Debenhams - (3rd Floor), Royal Parade	0752 266666
SHEFFIELD	Debenhams (3rd Floor), The Moor	0742 768611
SIDCUP	1-4 The Mews, Hatherley Road	081-302 8811
SOUTHAMPTON	Debenhams - (1st Floor), Queensway	0703 223888
SOUTHEND	Keddies - (2nd Floor), High Street	0702 468039
THURROCK	Debenhams - (1st Floor), Lakeside Centre	0708 860066

To: Silica, AMCOM-0994-213, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND ME AN AMIGA CATALOGUE

Mr/Mrs/Miss/Ms: .... Initials: ....

Surname: ....

Company (if applicable): ....

Address: ....

....

....

....

.... Postcode: ....

Tel (Home): ....

Tel (Work): ....

Which computer(s), if any, do you own?

.... 213D

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

Blitzing on the

Create your own user-interface in this first instalment of the new Blitz Basic 2 Amiga Guide

In the past there have been few attempts to bring a powerful yet easy language to the Amiga – the most widely known being Amos. But up until now they all seemed to have good points and plenty of bad points, such as not supporting Workbench windows.

Thankfully there is a new competitor on the scene and although the developers behind it are not widely known, this new contender has caused such a stir to the extent of being accepted world-wide by Amiga users with outlets in America, Europe and Australia.

Because of this, and your response to last issue's insert, we are going to bring you as much support for Blitz Basic 2 as we can muster, and at the same time spread a little light on the rather incoherent yet necessary manuals.

BASICS

Throughout this tutorial I will be working on the assumption that you know how to load up Blitz, load and save programs written in Blitz and compile them. If you are unsure about any of these or have problems following this tutorial then please write in.

In this first tutorial I will go through the basics of programming the Workbench screen, addressing the subject of screens, windows, gadgets, menus and events.

The principal behind the Workbench system is a complex system of libraries, messages, ports, packets and devices. Nearly everything you program that makes use of screens, windows, menus or gadgets will in some way interact with this system.

Thankfully Blitz handles all but the simple things for you, thus allowing you to concentrate on making your program professional and worthwhile. Lets open a window in our first program (please refer to the Ref Manual if you are unsure to the syntax or use of any of the commands):

```
WBStartup
```

Important if running on Workbench:

```
CloseEd
```

Saves us a bit of memory:

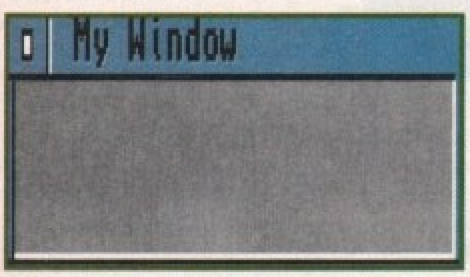
```
NoCli
```

We want our program to be displayed on the Workbench screen:

```
ev.l=0
```

A 'long' var to hold our events:

```
WorkbenchenchToFront_
```



This is what our window should look like

Pull the Workbench screen to the front (Oooh a library call!!):

```
WorkbenchToScreen 0
```

Assign the Workbench screen a number:

```
Use Screen 0
```

Lets make use of the Workbench screen:

```
Window 0,120,70,200,40,$1000|$8,"My Window",1,2
```

The window:

```
repeat
ev=0
```

Just to make sure there is no confusion:

```
ev=WaitEvent
```

Get an event:

```
until ev=$200
```

Keep looping until our window is closed:

```
CloseWindow 0
```

System friendly method of closing the window:

```
End
```

Terminate program.

After you have typed this in, save it and then choose the Compile/Run option from the compiler.

Hey presto! Your window will appear on the Workbench screen and will stay there until you click the left mouse button on the close gadget!

The first seven commands set up our program to work in the Workbench screen without any interference. It does this by pulling the Workbench screen to the front of the display and assigns it with a screen object number (see Chapter 7 of your User Guide about objects).

After this we make sure that our window will appear on the Workbench screen by telling our program to use it (note how we address the relevant screen with its object number we gave it earlier!).We are now ready to open our window (See your Ref Manual P.25-1 for the syntax!).

Notice that in the flags parameter we have put: $1000|$8. The '|' operator is known as the logical 'AND' operator and basically acts in the same way as adding the two values together, i.e.. $1000|$8 = $1008. All the flags are listed in your Ref Manual on P.25-2 and you can 'AND' as many as you like.

After the opening of our window, we then needed to know when the user used the close gadget so that we could close the window and terminate the program. We can determine whether or not the user has closed our window by the use of events.

EVENTS

Events are basically messages sent from Workbench when a user does something to interact with a program. The 'WaitEvent' command allows us to wait until Workbench has something to report to us (NB: it is important to remember that the value returned from Workbench through 'WaitEvent' is a 'long' value which is why we have to declare 'ev' as 'ev.l'!).

From looking at the event codes table in the Ref Manual (P.25-5), we can see that $200 is returned when the user has closed a window. Therefore we continue looping until $200 is returned, after which we can close our window and terminate our program!

Now that we can open and close a window let's add some interaction to our program – lets do an adding program.

Again we will first need to set-up our program to run in Workbench and we will also want a window. So let's use the above code and add the extra code below to handle all our input and output:

```
WBStartup
```

Startup for Workbench:

```
CloseEd
NoCli
WORKBENCHenchToFront_
WorkbenchToScreen 0
Use Screen 0
Window 0,120,70,240,80,$1000,"My adding
program V1",1,2
WindowOutput 0
```

Directs text output to our window:

```
WindowInput 0
```

Directs text input to our window:

```
Repeat
InnerCls
```

How do I get help?

If you have any questions that you need addressing from reading this column, you can write to me, Michael Milne at:

Blitzing on the Amiga
c/o Amiga Computing
Europress
Publications Ltd
Europa House
Adlington Park
Macclesfield
SK10 4NP.

(NB: Please state what machine you are using and any peripherals that you have)

Amiga

Clears our window:

```
WLocate 0,0
```

Positions the cursor at the top left corner:

```
Print "Press 'q' to quit!"
Print "Enter value 1:"
```

Prompt:

```
a$=Edit$(5)
```

Obtain 5 chars from user:

```
If (a$="q" Or a$="Q") Then Goto quit
```

If it is a 'q' then jump to 'quit':

```
Print "Enter value 2:"
```

Repeat as above for second value:

```
b$=Edit$(5)
If (b$="q" Or b$="Q") Then Goto quit
a=Val(a$)
```

Convert string values to numbers:

```
b=Val(b$)
NPrint ""
```

Print an empty line:

```
NPrint a,"+",b,"=",a+b
```

Print sum:

```
NPrint ""
```

Another empty line:

```
Print "Press return to continue!"
a$=Edit$(1)
```

Wait for return:

```
Forever
quit:
```

This is where we jump to if the user enters a 'q':

```
CloseWindow 0
```

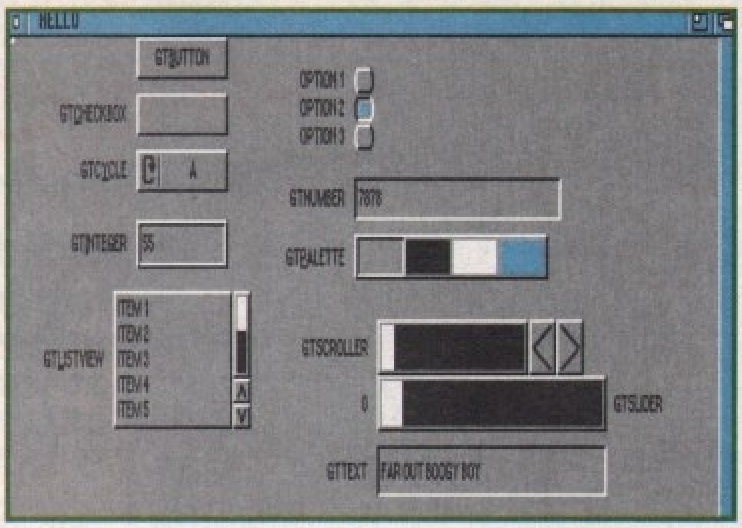
Close our window:

```
End
```

and terminate program.

This time we cannot accurately find out if the user has used the close gadget on our window or not. This is because the command 'Edit$' holds up your program while we are getting an input from the user.

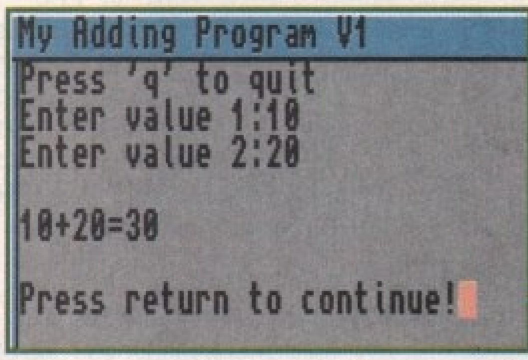
During this time all we can do is wait until the user has hit return, therefore we have no way of testing whether the user has hit our close gadget. That's why we also didn't need to put a close gadget on our window (represented by $8).



Using Blitz Basic 2 you can produce professional-looking intuition interfaces with ease

As you probably know, the above program is a simple adding program which continuously picks up two values from the user and then prints out the sum until the user enters a 'q'.

The first two commands simply clear the window and replaces our cursor to the top left of our window. Then we print a simple message to the user and wait for the user to put in the first value.



Now things are starting to look good

If you are unsure as to the difference of the 'NPrint' and 'Print' commands, the 'NPrint' does the same as a 'Print' but returns the cursor to the beginning of the next line after printing.

Notice that in the Ref Manual there are two 'Edit' commands, and that the normal 'Edit' command is ideal for only accepting numbers. We haven't used this because we still need to check whether the user wishes to quit.

It is easy to do this by obtaining their input in a string format ('Edit$'). Check whether the user wishes to quit – exit if the user does – and then, if it is a value, convert it to a number and continue with the sum. This is why we have two sets of variables to hold both the strings and the numbers.

The 'Forever' in the loop does just as it says – repeats the loop forever!

It's time to wrap up this first tutorial. But remember, the only way you are ever going to be a competent programmer is to practice, so try playing around with the window – even try opening two or three windows (don't forget to close them all!).

Look out for the next issue where I will explain opening your own screen and menu programming to add that professional feel to your programs.

On the next issue's CoverDisk will be the first UK Blitz User Disk Magazine, so don't miss out, reserve your copy today!

A brief description

The screen – the screen is the very foundation of the Workbench display. It acts like the drawing board for all your visible operations which the user will see. The screen is used to display all your windows and gadgets, without which there would be no display.

Unfortunately screens are not very flexible. They can only be pushed to the back of the display, but are nonetheless very important.

Blitz allows you to make one of three choices when programming screens – use the Workbench screen, open your own screen or grab someone else's.

Once you have done one of these you will have a screen number assigned to that screen which can then be used to reference it for your various operations.

The window – although you can use a screen to do all your input and output on, the window is the much preferred friend of the system programmer. This is because it allows for a more stylish and easy-to-use display, allowing for the use of gadgets and menus.

The window, as the name suggests, is like an opening, giving the user a view. Of what? Well, whatever the programmer wishes the user to see! But unlike the screen, the window is completely flexible and with the right programming it can be re-sized, moved around, pulled to the front and pushed to the back. They can now even display pictures inside themselves (As long as you have OS 2.00 or higher!).

Just like screens, each window has their own unique number and because of this you are allowed to open more than one window on any one screen, addressing each one by its identifying number.

The gadget – gadgets are the next simplest input/output from basic text input. They can display messages, hold text strings or numbers, be used as scroll bars, even cycle through a list of different options!

But there is a limitation of using gadgets – they can only be displayed from within windows. This is because the operating system was designed to handle them this way, so you can have multiple windows open and find out which gadget was hit in which window, thus allowing for more flexible and open programming.

Gadgets also have their own unique identifying numbers so that you can determine at any time whether or not a specific gadget was used.

The menu – menus are another way of obtaining interaction with the user. They can sometimes be preferred to gadgets due to their simple orderly composure, but can also be used in conjunction with gadgets to produce flexible applications.

When programming menus there is generally one purpose for which to use them, and that is to offer the user a selection of options. Thankfully the system will handle most of the interaction, allowing us to pick up the users choice and crack on with the request.

E & OE
08/07/94

White Knight Technology

THE PROFESSIONAL AMIGA SPECIALISTS
SUPPORTING SERIOUS USERS

2.5% Surcharge On Credit Cards. NOT Switch or Visa-Delta

☎ FAX 0992 - 714539
10am - 7pm Monday - Friday

PO BOX 2395, WALTHAM CROSS, HERTS, EN8 7HQ

White Knight

A1200 ACCELERATORS

GVP A1230 II, 40MHz EC030, Opt. FPU

WITH 0MB 32-Bit RAM	£ 229
4MB 32-Bit RAM	£ 419

GVP A1230 II, 50MHz 030, Optional FPU — New Lower Prices !!

WITH 0MB 32-Bit RAM	£ 299
4MB 32-Bit RAM	£ 499
4MB RAM + 50MHz 68882	£ 599
GVP A1291 SCSI I/F for A1230 II	£ 59

MICROBOTICS M1230XA

WITH 33MHz 68030 & MMU, 0MB	£ 249
50MHz 68030 & MMU, 0MB	£ 319
Special 50MHz 68030 & 68882, 0MB	£ 419

BLIZZARD 1230-II TURBO

WITH 40MHz 68EC030, 0MB	£ 225
50MHz 68030 & MMU, 0MB	£ 289
Special 50MHz 68030 & 68882, 0MB	£ 399
BLIZZARD SCSI-II I/F for 1230-II	£ 79

A2000 ACCELERATORS

GVP G-FORCE 25MHz 68030 + 1MB 32-Bit RAM + SCSI Port (Last Few)	£ 345
GVP G-FORCE 40MHz 68EC030 + 4MB 32-Bit RAM + SCSI Port	£ 685
GVP G-FORCE 33MHz 68040 + 4MB RAM, SCSI, Ser & Par Ports	£ 979

A4000 ACCELERATORS

BLIZZARD 4030 TURBO 50MHz 68030 + MMU, Opt. FPU (For A4000-030)	£ 259
Available with **50MHz 68882 FPU** for	£ 369
CYBERSTORM 040/40MHz 68040 + 32-Bit RAM, Opt. SCSI-II (For A4000 range)	£ 899
CYBERSTORM 060/50MHz 68060 + 32-Bit RAM, Opt. SCSI-II (COMING LATE 94)	Call
GVP G-FORCE 40MHz 68040 + 4Mb 32Bit RAM (Exp. 128Mb), Optional SCSI-II DMA Controller (For A3000/4000)	£1275

WARP ENGINE 28 / 33 / 40MHz 68040
4 x 72Pin SIMM Slots for upto 128Mb RAM
Built in FAST SCSI-II DMA Interface **New**

28MHz Version (Without CPU)	£ 669
28MHz Version (With 68040/25)	£ 819
33MHz Version (With 68040/33)	£1099
40MHz Version (With 68040/40)	£1279

AMIGA 1200HD

A1200 + 127 MB Hard Drive	£ 489
A1200 + 200 MB Hard Drive	£ 525
A1200 + 340 MB Hard Drive	£ 689

ADD £ 50 FOR INNOVATIONS PACK

ALL PRICES INCLUDE VAT

AMIGA 4000

ROCKET

Our Own Special Using The WARP ENGINE Including 68040, High Speed RAM & SCSI-II

A4000-RK28, with 28MHz 040 Warp Engine 2Mb Chip , 4Mb Fast RAM,No Drive	£ 1749
A4000-RK33, with 33MHz 040 Warp Engine 2Mb Chip , 4Mb Fast RAM,No Drive	£ 1999
A4000-RK40, with 40MHz 040 Warp Engine 2Mb Chip , 4Mb Fast RAM,No Drive	£ 2199

Your Choice Of 3.5" SCSI-II or IDE Drive
RAM on A4000 ROCKET is expandable to 144Mb

EC-030

The EC-030 has no MMU or FPU

A4000-EC030, 6MB RAM, No Drive	£ 959
A4000-EC030, 6MB RAM, 214 MB	£ 1149
A4000-EC030, 6MB RAM, 340 MB	£ 1199
A4000-EC030, 6MB RAM, 420 MB	£ 1229
A4000-EC030, 6MB RAM, 540 MB	£ 1349
A4000-EC030, 6MB RAM, 1.0 GB	£ 1699

FPU's are available, priced from £ 69

LC-040

The LC-040 has an MMU but no FPU

A4000-LC040, 6MB RAM, No Drive	£ 1489
A4000-LC040, 6MB RAM, 214 MB	£ 1639
A4000-LC040, 6MB RAM, 340 MB	£ 1739
A4000-LC040, 6MB RAM, 420 MB	£ 1759
A4000-LC040, 6MB RAM, 540 MB	£ 1859
A4000-LC040, 6MB RAM, 1.0 GB	£ 2229

Upgrade to the full 68040 processor for £ 165

040-TOWER — DELAYED

The 040-Tower has both an MMU and FPU
It has 2 video slots and both SCSI-II & IDE

A4000T-040, 6MB RAM, No Drive	£ 1889
A4000T-040, 6MB RAM, 214 MB IDE	£ 1989
A4000T-040, 6MB RAM, 525 SCSI-II	£ 2289
A4000T-040, 6MB RAM, 1Gb SCSI-II	£ 2589

FREE WITH ALL A4000s
DPAINT IV AGA. WORDWORTH V2 AGA

AUDIO PRODUCTS

SUNRIZE AD516 / STUDIO 16

8 Track Stereo, 16-Bit, Better than CD Quality - Direct to Disk Recording, Editing & Playback. Can be used in conjunction with Bars & Pipes Professional, the DPS Personal Animation Recorder (PAR) and also the new Digital Broadcaster 32 from Digital Micronics.

Now £ 1175 Inc. VAT

Please Call For A Full Brochure

HARD DRIVES

A1200 2.5" Internal IDE

85 MB & CABLE	£ 159
170 MB & CABLE	£ 265

OVERDRIVE 35 for A1200

New Low Prices

170Mb - £ 269
250Mb - £ 289
340Mb - £ 329

Bare SCSI

210 MB SCSI 3.5"	£ 229
290 MB SCSI 3.5"	£ 299
340 MB SCSI 3.5"	£ 369
545 MB SCSI2 3.5"	£ 499
1.0 GB SCSI2 3.5"	£ 699
2.1 GB SCSI2 3.5"	£1299

A4000 IDE

256 MB IDE 3.5"	£ 199
340 MB IDE 3.5"	£ 235
420 MB IDE 3.5"	£ 265
540 MB IDE 3.5"	£ 379
1.0 GB IDE 3.5"	£ 749

HARD DRIVE CONTROLLERS

GVP HC8 / A4008 SCSI + RAM A2000 & 4000	£ 129

FASTLANE Z3
SCSI-II + Upto 256Mb For the A4000 Range
Now Only
£ 299

SEAGATE 2.1Gb BARRACUDA
The Fastest SCSI-2 Drive (5.8 Mb/s Sustained)
£ 1599

The FASTLANE Z3 or WARP ENGINE And BARRACUDA Are The Only Combination Capable Of Reaching Beta SP Video Quality On The DIGITAL BROADCASTER 32.

Seeing is believing

A 24-bit graphics card compatible with all applications? Frank Nord grasps his specs and peers into Retina III

It was with great delight that I opened the parcel containing my review Retina BLT Z3. I thought "Great! ZorroIII performance, 4MB Display RAM and Workbench emulation."

Now, I already know a bit about Workbench emulation courtesy of my PicassoII card, where setting a screenmode is an absolute breeze. Picasso creates new standard Intuition screenmodes that can be set in any Screenmode requester, so, as you can see, I was hoping that Retina's would be as transparent and easy to set up.

I opened the box that Retina came in and already I was frowning. MacroSystems have a deserved good reputation for creating solid hardware, vis VLab, and I had hoped that this was going to be no exception. I have to say I was disappointed.

First off, the Retina isn't a full length card – it's just as long as it has to be to plug into the Zorro slot. I would much rather have seen a full-length card that was easier to plug in, because it was guided in at both the front and back of my machine instead of wobbling around as I pushed it in.

MONITOR

Next, I knew that the original Retina only had one monitor output port on it, so if you wanted to see Amiga screens you had to run two monitors side-by-side, but I had heard that the Retina Z3 was going to be equipped with two instead of the single port I found (most of the other RTG graphics cards on the market have a monitor input port to provide a pass-through of the standard Amiga video signal when the card is not being used).

I had also heard that video output was to be included as standard, and looking at the board it seemed that my suspicions were confirmed as there were two video ports, one composite and one Y/C, on the back of the board.

But it turns out that to use them you are required to buy an extra PAL encoder card which fits onto the Retina board. So why bother going to the expense of putting ports onto the card that potentially few people are going to make use of?

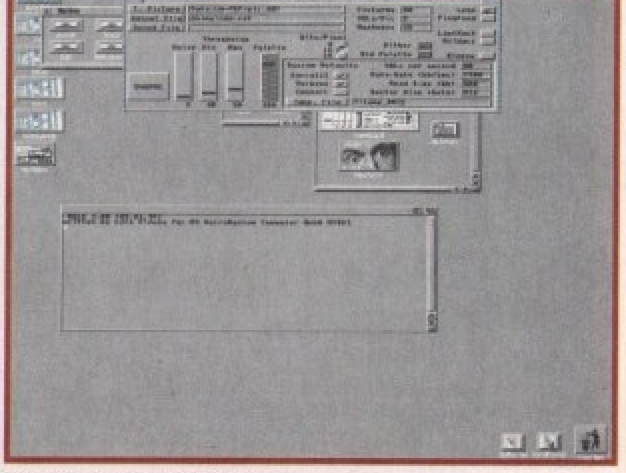
My third initial complaint concerns the rather skimpy manual that is provided. MacroSystems are well-known for writing dense, hard-to-understand manuals, but they usually have some depth to them.

The Retina manual is only 43 pages long. It doesn't go into enough detail on a lot of topics, and leaves out any details whatsoever about the rather dire paint package included called VDPaint. There are no warnings in the manual about the Retina Z3 only working in machines equipped with ZorroIII slots (the 3000 and 4000 series) and as I haven't got a machine with ZorroII slots to check it in, I couldn't find out if it automatically detected the difference between ZorroII and ZorroIII slots and changed its method of working accordingly.

Retina's method of retargetting Workbench is not exactly friendly. Firstly, there is a program called Retina-ScreenMode which opens a window showing a whole load of different monitors. I would say you are fairly likely to find your monitor, or at least one very like it, mentioned in the list.

Once you have selected the monitor you own, a list of screen "groups" appears on the right-hand side of the window. These groups can be expanded to show all the various screen modes contained therein.

Thanks to the execrable manual, I am still not overly sure what relevance these different screen modes actually have in the running of the Workbench emulation, as



Spot the cryptic interface!

What was RTG again?

RTG is an acronym for ReTargettable Graphics, a mythic Commodore standard for incorporating other people's graphics cards into the Amiga system.

The idea is that a user can plug a graphics card into the machine and then use all the software on that card as though it were normal Amiga graphics.

To be able to do this several things need to happen first. One is that software designers have to obey the rules when it comes to creating the interfaces for their programs.

Requesters and windows should be font-sensitive and programs should offer the user a screenmode requester to choose the mode most suitable for his or her needs.

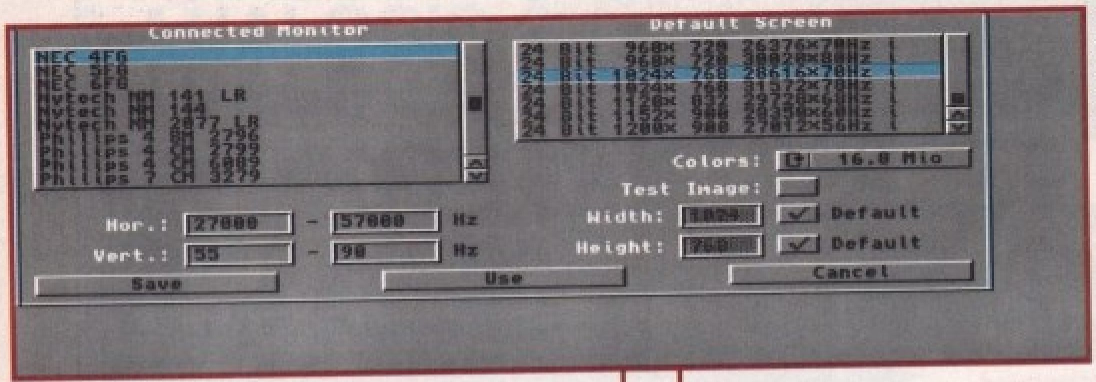
The other is that Commodore needs to define an RTG standard so that the software and hardware developers have something to aim for instead of all the conflicting systems that are currently in use.

they are all also listed in the program called RetinaEmu which you run next.

RetinaEmu is really the heart and soul of Retina's RTG effort. When you run a program you haven't run since you got the Retina, it makes a note of it in its list. You can then pick that program's name from the list and choose a Retina screen mode to run it under.

Few programs seem to mind this rather cavalier attitude to their screens, but programs like VistaPro and DeluxePaint, that have custom interfaces rather than sticking to using proper intuition screens (naughty!), don't really like promotion at all.

Once you are satisfied that all the normal ➤



The first window you should peruse. Look at all those ScreenModes!

software you tend to run works OK under Retina's aegis, you start to want to play about a bit with the programs that come with Retina.

There's a whole bundle of stuff to look at. First up is the rather cryptic MakeRACE program. It has a massive six and a half pages of manual devoted to it and is an animation creation tool.

It can create anims in 8-, 16- or 24-bit and will automatically dither your frames down to the required number of colours using the Floyd-Steinberg technique.

METHODS

Personally, I would rather have seen it use the Random method as used in ADPro, which stays in the same place every frame giving you less deltas than Floyd-Steinberg.

As with the rest of Retina's software, MakeRACE seems over-complex, but its complexity ensures that you will be able to create the best possible animations with it.

Anims that are created with MakeRACE can also have a soundtrack applied to them which can be in 8SVX format or MacroSystem's own Toccata or MaestroPro formats for 16-bit sound quality.

Once the animation has been created (a rather drawn-out process even on a 4000) you will need to load one of RACE's ancillary programs, PlayRACE or CopyRACE.

PlayRACE plays back the animation from RAM and CopyRACE does the same but from hard disk.

Next up is AnCoS Jr. which is a sort-of Retina version of FRED the frame editor that comes with ADPro.

No graphics card worth its salt is without some sort of picture viewer and Retina is no exception. If you own a copy of ImageMaster or ADPro the installer will load viewers for those programs onto your hard disk.

However, there is also a standalone file viewer that, thanks to Retina's multipic.-library (a sort of Universal loader used by all the Retina software), will show files in a wide range of formats including all the IFF variants, VLab (obviously!), BMP and JPEG amongst others.

It has an Appwindow interface allowing you to just drag and drop picture icons onto its window to show them. It can also be run from the Shell and thus is suitable for integration into file managers like Directory Opus or DiskMaster2.

TWEAKING

In case you weren't confused enough by RetinaScreenMode and RetinaEmu, we now come to a little utility called DefineMonitor that allows you to tweak the screenmodes so that they fit nicely on your monitor.

Once you have messed around with them all, you can then append your newly-tweaked list to the original list, resulting in twice as many screenmodes to choose from!

To finish off the complement of programs, there is a Retina screen blanker that doesn't do anything interesting like putting all 16.7 million colours on the screen one after the other, it just shows a black screen which is obviously the best way to keep your monitor from burning out – but it is a bit boring.

Retina's Workbench emulation is actually outstandingly fast once you get past the hassle of setting it all up. Even running a 256-colour Workbench at 1024 x 768 was zippier than a four colour Hi-Res Workbench.

Windows snap open and fill with icons, lists of files scroll smoother than a baby's bottom and moving from screen to screen is nigh on instantaneous.

Best of all, MacroSystem have got around the old CHIP RAM-copying problems that plagued the original Retina by doing pretty much everything using Retina Z3's built-in blitter, which leaves your CHIP RAM free for more important things.

CONCERN

I think it's a shame that a product with such potential should receive such a poor overall review. If MacroSystem had bucked their ideas up a bit and given the Retina Z3 two monitor ports, a decent manual, readme's in English as well as German (especially worrying when I recognise words like Achtung! in them), included the video encoder in the price and most importantly, completely revised their system of RTG, I would have been a lot happier.

I first saw the original Retina card as a prototype in Germany in 1992 and was amazed at what MacroSystem were trying to do: a 24-bit graphics card that could be used with all applications, not just paint packages.

However, it seems that they have not really looked at all the competition that has sprung up around them in the shape of EGS and Picasso which offer better usability with comparable facilities.

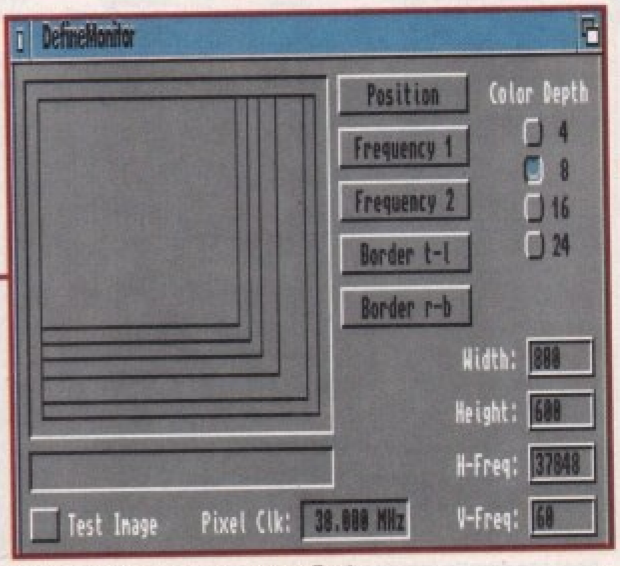
What else is out there?

There is a wide range of graphics cards available for the Amiga, from AVideo and DCTV through to Harlequin and G2's Imagica system, but probably of most interest are the so-called RTG cards.

There are three main offerings: the Retina in ZorroII and ZorroIII versions, Picasso and the wide variety of EGS boards. I have played with them all in my time and I currently own a PicassoII card.

The reasons for my purchase were that Retina's system for RTG was unwieldy and (unnecessarily) complex and I didn't like the fact that EGS seemed to be happier replacing Intuition rather than complementing it.

Certainly there are boards that give the extra speed that ZorroIII confers, and some have 4MB of display RAM to allow you higher resolutions, but none is as easy to configure as Picasso and none is as transparent as Picasso when in everyday use.



The third stage in the Krypton Factor...

SYSTEM ESSENTIALS

RED = Essential **BLACK** = Recommended

1 Mb CHIP RAM — 2 Mb FAST RAM — Hard drive

A3000 or A4000

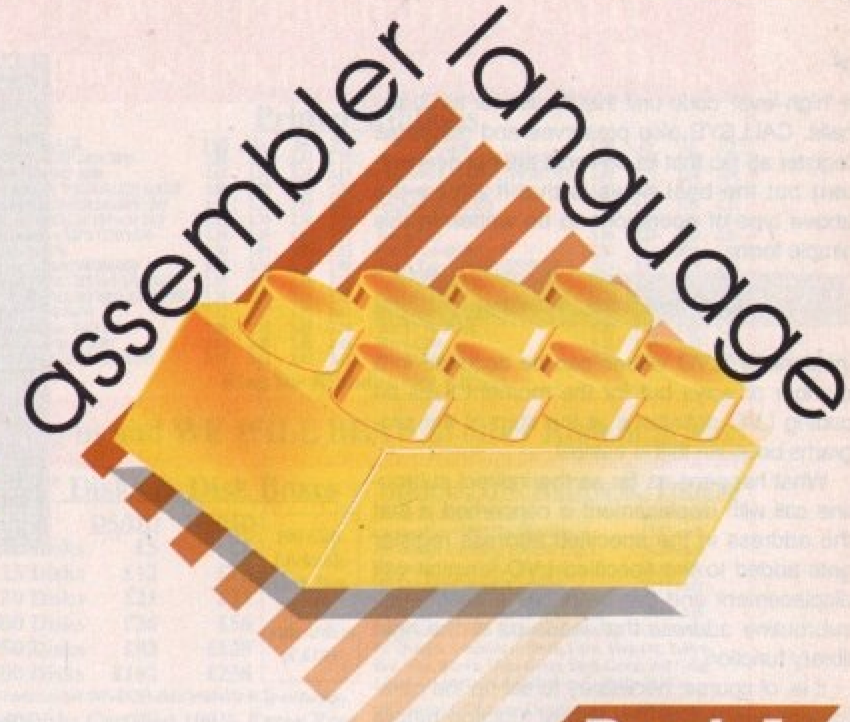
4 Mb FAST RAM — 2 Multi scan monitor

The bottom line

Product: Retina BLT Z3
Supplier: ACE
Tel: 0896 870 583
Price: 1 MEG £412
4 MEG £540

Ease of use	5
Implementation	7
Value	7
Overall	7

Devpac delight



Part 1

If you are keen to join the ever-increasing number of Amiga 680x0 coders, then this new series from Paul Overaa is sure to set you on the right track

Over the next six issues I'll be using Devpac to build an Intuition program that is able to display text files. This may not sound like an earth-shattering goal, but you will be learning about a whole range of useful things like using the ASL file requester, detecting menu events and so on and it'll all be done using Release 2 (and upwards) compatible code.

I'll be spending quite a bit of time explaining the underlying ideas and first on the agenda are some details about how you actually create an assembly language program.

Step one is to use an editor to prepare something known as a source code file. All this means is that you use a text editor to create a plain ASCII text file containing the program instructions.

Devpac has its own editor and the editor window appears as soon as Devpac starts. Once the program instructions have been written, the next step is to convert the source to the appropriate 680x0 instructions.

With Devpac there are two ways of doing this but the easiest way, which is ideal for simple programs that involve just one source file, is to let Devpac produce an executable (runable) program directly. This is what we shall be using during the early instalments.

The Amiga's multitasking Exec supports a library system that exists quite separately from the applications programs which run. Since our program will be making extensive use of a number of these libraries, some preliminary explanations are in order.

Programs tell Exec that a library is needed by attempting to 'open' it using an OpenLibrary() function. It's important to know that the OpenLibrary() call was successful and this is done by checking that the returned address is non-NULL (ie non-zero).

Function Name: OpenLibrary()
Description: Open an Amiga run-time library
Call Format: base_address=OpenLibrary(library_name, version);
Registers: D0 A1 D0
Arguments: library_name. Address of a null terminated string version – a library version number
Return Value: base_address – the address of the base of the library. If the library cannot be opened a NULL (zero) value is returned.

Function Name: CloseLibrary()
Description: Close an open library
Call Format: CloseLibrary(base_address);
Registers: A1
Arguments: base_address – the library base address
Return Value: None

OpenLibrary() is an Exec library function and having said that the first stage in using a library is to open it by using the Exec OpenLibrary() function – you may be wondering how you open the Exec library in the first place.

The simple answer is that you don't need to – the Exec library base address is permanently available and stored in the long-word at memory location 4 (called AbsExecBase).

Amiga library functions are accessed using indirect addressing coupled with an offset value called a library vector offset (LVO) – this identifies which library function is involved.

By convention we place the base address of the library in register a6 so the code for an OpenLibrary() call will look like this:

```
move.l          _AbsExecBase,a6         get base address
of Exec library
jsr             _LVOOpenLibrary(a6)     make the indi
rect subroutine call
```

I'll be using a macro called CALLSYS to create

Assembling and running the code

I actually wrote this example with Devpac 3, but armed with an advance copy of the de-archived Devpac2 cover disks (which by now you also will have) I was able to test the code with the Devpac 2 package as well. These Devpac 2 instructions should work with all machines (even single drive ones).

First, copy this month's AC1.s example code to the ram disk, insert the Devac AM1 disk into df0: and make df0:c the current directory by typing CD df0:c at a Shell window.

Now type Genam2 to load Devpac and then use the Project menu to load the source from the ram disk. Select 'Assemble' from the Devpac Program menu and choose the 'Output to memory' option to assemble the program (because then you'll be able to run it directly from the Devpac2 Program menu).

Once you're happy that it works you can reassemble it using the 'Output to disk' option to store a permanent copy.

The example code should also assemble without error with other assemblers but do note that, at the moment, the code MUST be run either directly from Devpac or from a Shell window – it will NOT run from the Workbench because we've not added any startup code (this comes later in the series).

a 'high-level' code unit that I'll use for all library calls. CALLSYS also preserves and reinstates register a6 (so that its contents are not overwritten) but the best news is that it allows the above type of operations to be written in this simple form:

```
CALLSYS OpenLibrary,_AbsExecBase
```

Incidentally, LVO values can be acquired in a number of ways but for the moment I will be putting LVO definitions at the start of the programs because this is easiest.

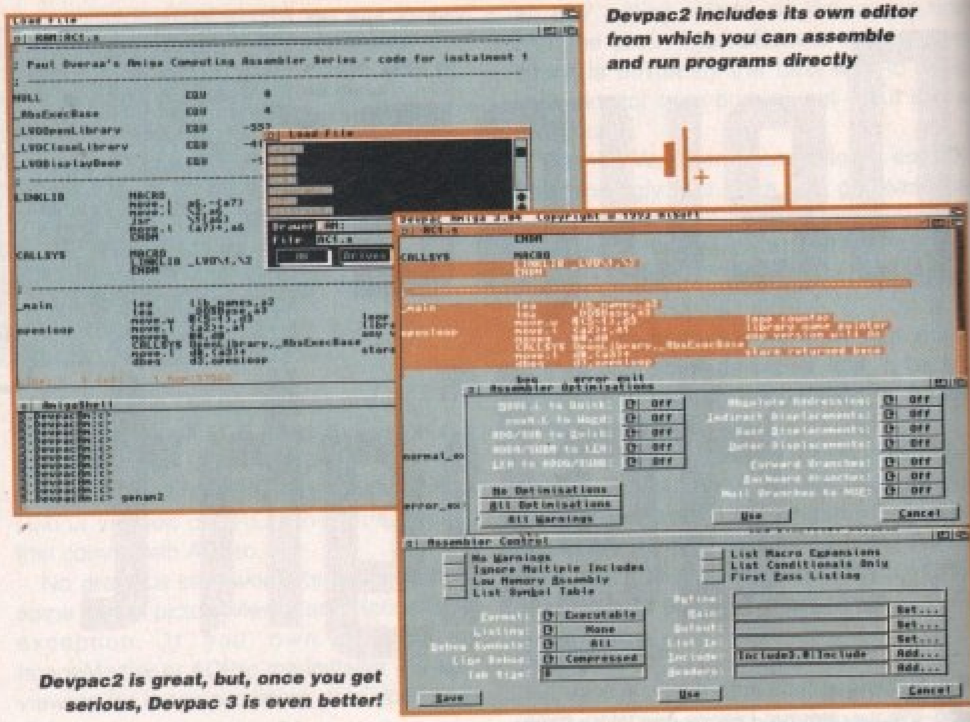
What happens as far as the indirect subroutine call with displacement is concerned is that the address in the specified address register gets added to the specified LVO function call displacement and this produces a destination subroutine address that leads us to the right library function.

It is, of course, necessary to set up the parameters needed by the library function before making the call. If, for example, you look at the OpenLibrary() function box out you'll see that it needs a pointer to a library name in register a1, and a version number in d0.

I'll be setting d0 to zero because this tells Exec that any library version will do.

Closing a library is just as easy as opening it. You use the same type of indirect subroutine call, but specify the CloseLibrary() function instead:

```
move.l    _AbsExecBase, a6       base address of
Exec library
jsr       _LVOCloseLibrary(a6)   indirect subroutine
call
```



Devpac2 includes its own editor from which you can assemble and run programs directly

Devpac2 is great, but, once you get serious, Devpac 3 is even better!

Again I use the CALLSYS macro to do this and write:

```
CALLSYS CloseLibrary,_AbsExecBase
```

At the moment our program is relatively short and consists of these five sections:

1. Equate definitions for constant values used by the program
2. A couple of macros for making library calls.
3. The main program code.
4. A subroutine which handles the library closing operations.
5. Space for library bases, names, and a library name pointer list.

Incidentally, I have included a couple of instructions in the program which make an Intuition DisplayBeep() call so that the program does something visible when run.

● Next month I'll be adding some window opening code to this framework.

A plan of action

We'll be explicitly opening the DOS, graphics, intuition, gadtools, and asl libraries, so the appropriate text strings representing the name of the libraries need to be included in the source via dc.b pseudo-op statements.

Note that NULL (zero) bytes are used at the end of the real text characters to identify the end of the string (a common convention), like this:

```
lib1 dc.b 'dos.library', NULL
```

We also need some labelled long word locations to store the base addresses of the libraries we open and here we use the ds.l pseudo-op in this fashion...

```
_DOSBase ds.l 1
```

As far as opening libraries is concerned we've got to load the address of the Exec library into register a6 then, for each library we wish to open, set up library name pointer and version details before making an OpenLibrary() call.

If the values returned in d0 are not zero then the libraries will all be open. How do we test d0 to check whether it contains a zero or not? It's easy – we use a move instruction to copy the contents of d0 to the location that we've set up to hold the library pointer, and as the move occurs the processor's zero flag will be set to reflect the zero/non-zero status of the result.

If the libraries do open successfully we'll need these pointers in order to perform the CloseLibrary() operations before the program terminates.

Because of the number of libraries being opened I have coded the opening and closing operations using loops. Pointers to the first library name and base are loaded into registers a2 and a3, and d3 is loaded with a count one less than the number of libraries to be opened (this is because the automated dbeq instruction counts down to -1 if the loop goes to completion). Here are the setting up operations:

```
_main    lea      lib_names,a2
         lea      _DOSBase,a3
         move.w   #(5-1),d3        loop counter
```

and here is the corresponding loop code that actually opens all the libraries:

```
openloop move.l   (a2)+,a1                    library name pointer
         moveq    #0,d0                       any version will do
         CALLSYS  OpenLibrary,_AbsExecBase
         move.l   d0,(a3)+                    store returned base
         dbeq     d3,openloop
```

Notice how I've used indirect addressing with autoincrement instructions when copying the library names and returned library base pointers. With a2 for instance, which starts off holding the address of the first library in the list of library names (dos library), this is what happens.

The move.l (a2)+,a1 instruction copies the DOS library name pointer to a1 (this is in readiness for the OpenLbrary() call). After this occurs register a2 is auto incremented by 4 so that a2 then points to the next library name to be used. The same autoincrement idea is used when storing the returned library bases.

The loop terminates either with d0 holding the last valid open library pointer and d3 holding -1 or, if an OpenLibrary() call failed, with d0 holding 0 and d3 holding a loop count value between 4 and 0.

The important point with all this, which you'll see if you trace through the loop code, is that as soon as a library open error occurs the loop quits with register (a3) pointing to the base of the library that failed to open!

To close any previously successfully-opened libraries, all we need to do is use a backward reading loop to collect the valid library pointers already stored in the library base variables.

When you examine the code on the cover disk you'll see that the library closing loop has been written as a subroutine.

This is because the code can be called under two different situations – when the program has run without error and all five libraries need to be closed, or when there has been a library opening error and four or less libraries need to be closed.

By testing the zero flag at the end of the library opening loop we can tell whether an error occurred, so a conditional beq instruction allows us to select either a normal or an error pathway like this:

```
            beq       error_exit

            ; here's where the rest of the
            ; program code will go!

normal_exit           lea          lib_names,a3
            moveq     #5,d2        library count
            jsr       CloseLibs    close libraries
            moveq     #0,d0        clear d0 for O/S
            rts                    and terminate program
error_exit            moveq        #(5-1),d2
            sub       d3,d2
            jsr       CloseLibs    close libraries
            moveq     #0,d0        clear d0 for O/S
            rts                    and terminate program
```

public sector



Tina Hackett digs deep to bring you the latest offerings from the PD scene.

This month we discover all kinds of strange delights in the Aladdin's Cave of Public Domain. From horse racing to flying circus acts, you'll find it all within these pages....

Nightbreed 4, AGA

Available from: Jorvik Public Domain
Disk No SSO315



An unusual choice of pictures provide an interesting slide show

PD slide shows frequently fall victim of unoriginality, churning out air-brushed pictures of mythical creatures and warriors.

Nightbreed, fortunately, is a breath of fresh air. Although the show is not particularly long, the pictures used are unusual and of high quality. Its name is slightly misleading – it has nothing to do with the horror movie or for that matter little to do with the night, with the subjects varying considerably from strange lizards to cacti.

Most of the pictures use reflections in some way to create some brilliant effects. One of the most outstanding is of what looks like a piece of bronze with the outline of a face moulded into it. Other pictures include the Terminator, a car with a beach scene background, and an electric bed – strange!

Kung Fu Charlies

Available from: Scribble PD
Disk No GO93

Another simple idea well executed, Kung Fu Charlies is a mixture between a platformer and a beat-'em-up. You are a Kung Fu ninja character (as the title suggests!) and must make your way through the levels of platforms while defeating the many enemy ninja characters that appear.

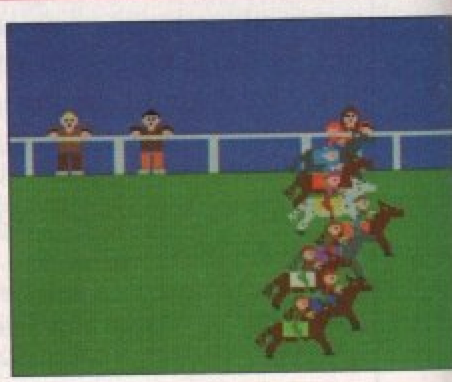
You are able to carry out quite a few moves to effectively defeat the baddies, such as a crouch down kick, or a straightforward front kick.

Graphically, the game is rather primitive but the cartoon-style characters are quite appealing and reasonably detailed. The amusing Ninja yells add appeal and work well. Two-player mode gives the game another angle – the second player takes the form of a strange clown-looking ninja, and you both take the same side against the ninjas.

This all adds up to some very basic but fun beat-'em-up action. It certainly isn't First Samurai or anything of that quality, far from it in fact, but it does have gameplay and is fun while it lasts... for however long that may be!

Ninja platformer with beat-'em-up type fun





Cheer your horse to the finish

Steward's Enquiry

Programmed by: Alistair Duncan
Available from: Roberta Smith DTP
Disk No BGA079

Is your idea of fun yelling and jumping around madly for the first horse past the finishing post? Do you enjoy the excitement of placing your hard-earned cash down at the bookies? If the answer to

GAME of the MONTH



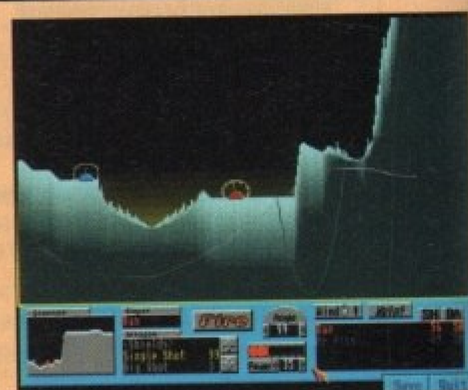
A classic PD game made even better!

Scorched Tanks (v1.77)

Programmed by: Craig Holmes
Available from: C Holmes

This is the latest offering from C Holmes and is the updated version of the brilliant game, Scorched Tanks. The aim is simple. Up to four tanks are placed on a hilly landscape and the idea is to bomb the living delights out of each other!

It's kill or be killed time here and using the range of weapons at your disposal



you direct where you want your bombs to land through plotting angles and how much power you wish to fire them with.

You win cash for accurate hits on the

these is "yes" but you're strapped for cash, well, fear not because you can have all the fun of the fair, well race track, through Steward's Enquiry and without spending heaps of cash.

The game allows you and up to eight other like-minded gamblers to place as many bets as you want and you also get to take on the role of the owner buying up stables.

Starting off with £3000 to play with, you can view the stables on offer and decide whether or not to invest £1000 of it in one. Buying a stable occasionally reaps financial rewards, but at the end of the game whoevers stable has the largest number of wins gets a prize bonus of £5000.



Once you've got the practicalities of stable-buying over with, you can get onto the fun part of frittering your cash away and placing your bets. Over a maximum of 20 races you can bet away until your money runs out (bankrupt players are excluded from this section).

Simply pick a horse by weighing up the odds, decide how much and take a note of the colour of the rider's jacket (so you'll know which to cheer for, of course!).

The race track continues over two screens so you can't actually see the finishing post. Horses line up for the off and you view the race side-on as the screen scrolls horizontally.

A random event screen sometimes appears before a race and will effect the game in some way – some are helpful some or not.

Another angle to it is the Steward's Enquiry. If more than one horse crosses the finishing line at the same time then a Steward's Enquiry will take place and the computer will decide at random who is the winner.

The enquiry may also decide that the jockey has been mistreating his horse. It would be assumed that he was acting under the owner's instruction and would be penalised.

The game finishes when all races are over or when all players are bankrupt.

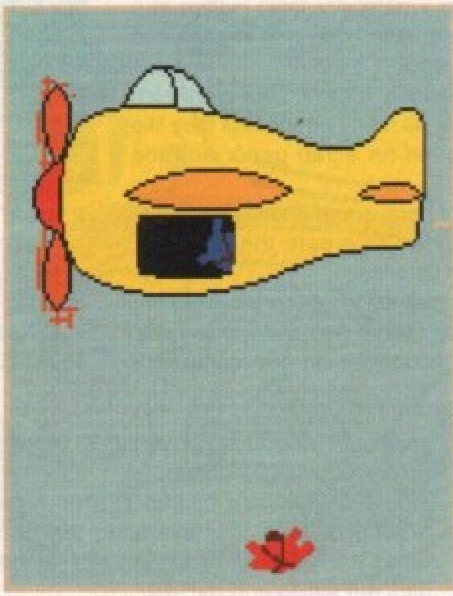
This is a brilliant, fun title and although the concept is very basic and the graphics hardly stunning it is great for a laugh, especially if you drag a few friends into the game.

enemy which enables you to buy more weapons for the next round. Choose from a vast array of ammunition from mega nukes to slingshots. This new version now contains around 60 weapons.

The game looks good with colourful backdrops and clear presentation. Effects such as the hill crumbling away with the force of the hit and the crater maker bombs, for example, look quite spectacular. Sound effects also work well with explosions and bouncing bomb noises going off everywhere!

This is a brilliant title, especially with two or more players, and with this updated version containing new elements, such as save game options and changing the IQ and starting money of the players, it has more depth. Gravity, terrain and the amount of wind can also be altered to vary the game.

Highly recommended.



Although rather a basic concept, it does have charm

The Incredible Flying Zambini Bros

Programmed by: Tom Werber

Available from: Jorvik Public Domain
Disk No ANO 217

Although this offering by Tom Werber is nothing complex or particularly ingenious, it is a nice demonstration of how something so simple can work so well.

Drawn in a style similar to Bob Godfrey's Henry's Cat, this animation shows the attempts of the Incredible Flying Zambini Brothers to perform their flying circus tricks.

The comedy is based around the fact that the smallest member of the troupe always ruins the trick. Although none of the members have features or even faces (they are in fact blobs of colours with a vague body shape) they do seem to have a fair amount of character.

They convey their characteristics merely through body size and how they move. The green Zambini brother is the smallest of the bunch and you can't help feeling a certain amount of sympathy for him as he fails all the tricks the others manage so successfully.

This is a surprisingly long animation containing three separate stories. The first is Perilous Parachute Problems and the little green character again falls victim to the trick going wrong – the others safely fall out of the plane and open their parachutes. When it gets to his turn the chute fails to open and he falls to the ground. As if all this wasn't bad enough, the plane then lands on him!

The other three – Terrible Trapeze Tricks, Traumatic Tightrope Tantrums and Trampoline Trials and Tribulations – all speak for themselves really as to what they're about, with the same outcome of the trick going wrong.

They're all comedy basics but do work well. The jaunty accompanying tune adds to its charm. The line drawings and primary colours look good and the whole thing seems to gel nicely, providing a quality animation of a very reasonable length. Recommended.

Calling all PD libraries....

....and individuals with anything remotely worth my while having a peek at. If you want something released as PD, or you're a library with stacks of hot new stuff that you haven't seen reviewed yet, why not drop me a line with a copy, full documentation and everything clearly labelled? I promise I'll at least look at your work.

Tina Hackett, PD Submissions, Amiga Computing, Europa House, Adlington Park, Macclesfield, SK10 4NP.

Fatal Morgana AGA

Coded by: Claw

Available from: Jorvik Public Domain
Disk No DMO 291

Demos are hardly few and far between these days and with most verging heavily on the mediocre side, it's not surprising ➤



A brief treat for Beavis and Butthead fans

that whenever another demo arrives in the post it's usually met with moans and groans and a cynical chorus of "ha, ha spinning cubes again."

So on the rare occasion we get something a little different then it is a joyous day in the *Amiga Computing* offices.

Fatal Morgana, brought to us by Tragedy, is a mixture of the two – it would have been a pretty fine demo but it was spoilt with the obligatory spinning cube sequence.

Starting off with your usual ravey tune and swirling zig zag patterns, the demo then moves on to a circle orbiting a smaller circle. Not mind-blowing stuff admittedly, but still rather effective.

The next image is of a woman dancing in front of a moving flowery backdrop. The dancing looks smooth and flowing and works well with the rave tune.

Next up is a stippled picture of a swans head and then the swan starts raving – yes, a raving swan – unusual and creative.

Things then get really wild when the sequence repeats itself, the music speeds up and the images gets faster, flashing across the screen at a fair rate. Everything builds up into a crescendo and then it's all over, well almost.

After recovering from all this mind-warping stuff you are treated to an animation of the headbanging' duo, Beavis and Butthead. The usual antics of the twosome are included, such as a few seconds of headbanging and their manic laughs. It's all finished off with one of them stating "This demo sucks."

Well, it doesn't, especially if you like Beavis and Butthead and fast rave demos.

The Rainy Day Disk

Programmed by: Gina Mears

Available from: F1 Licenceware

Gina Mears seems to have a knack for creating great disk compilations for children. The last one I had the pleasure of reviewing was her Pick 'N' Stick game – an idea similar to Fuzzy Felts – and this one is of the same high standard.

Included is a Word Search game where the child must find the words relating to a particular topic hidden in a scramble of letters. These have been well-chosen and would all be familiar to a child.

The Scribble Pad is basically a blank note pad which enables the child to create as many pictures as they like – it saves searching round for scrap paper and the messy paints every time.

Different thicknesses of pens are available and a variety of shapes can be used to create the patterns. Different colours can also be chosen.

The next section is a collection of stories including Henrietta Hen, Frank Frog, Bertie Bee and Ferdie Frog. These short stories are accompanied with some nice illustrations. They are quite short and are easy enough for a young child to read.



The painting book part of the program is bound to entertain a young child

Another part to this disk is the colouring-in section. This is your usual line drawings left blank for the child to colour in using the paint box icons at the top of the screen.

Overall this is a great, entertaining disk ideal for a young child.

Assassins Games Disk

Available from: PD-SOFT

Disk No ASS169

This three game compilation includes the titles, Pee Bee, Turbo Hockey and Brain Damage. The first is a shoot-'em-up which revolves round the bee twins. Twee aspect aside though, this isn't a bad little title that involves flying along a vertically scrolling screen shooting baddies.

The levels are based rather nicely around themes. For example, the backdrops are made up of sweets and the baddies are lollies and the like.

As well as avoiding the nasties and firing at them, you have to find your way through small gaps in the platforms. This is more difficult than it sounds as the screen is scrolling vertically and quite fast – if it touches then it causes damage.

Although this is fairly basic gameplay the graphics are of a particularly high quality. Many colours have been used to create the background, making for a very professional-looking game indeed.

Turbo Hockey is another fairly simple idea but works well. Two-players compete on an ice rink with goals at either end and the idea is to get control of the puck and blast it past your opponent's goal. It won't astound with great graphics or anything but it is very playable.

The third, and by far the best, is Brain Damage, a puzzler which requires you to move the various objects into a pattern around a chequered board.

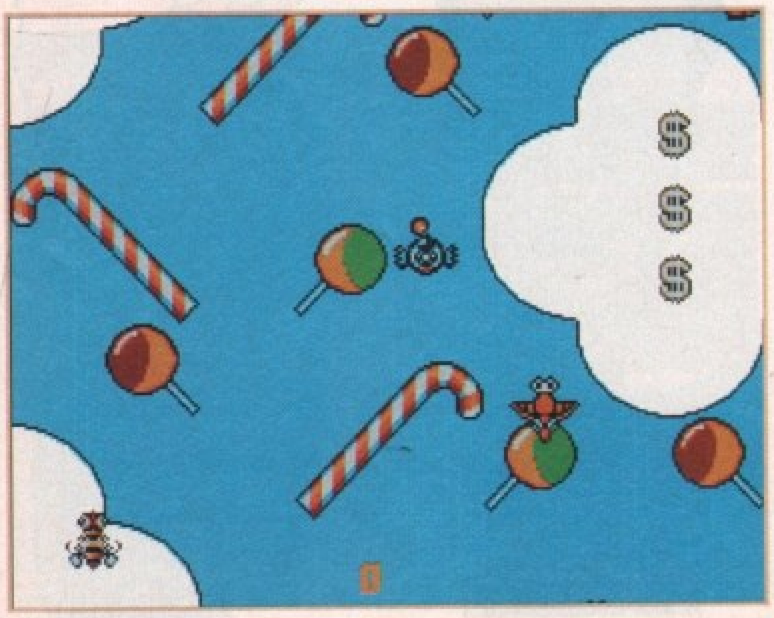
The board consists of 8x8 squares, some containing objects that are moved around using the arrows surrounding the board. This makes it incredibly difficult as you have to move an entire row or column.

You can set the difficulty from Moronic to Average. (The registered version goes on to include more levels plus an Ingenious stage – it also contains a save and load game option.)

The more difficult the level, the less time you have to complete the puzzle in and the less moves it must be done in. The game is also affected by being able to Rotate, Transform and Bomb certain parts of the pattern.

This is all very taxing and if Rubics Cubes and the like didn't appeal then steer clear! This is a more sophisticated brain teaser-style game that requires a great deal of logical thought. A very entertaining puzzler.

Although Pee Bee isn't very original, it looks good and plays well



lay your hands on me

Asa Margetts
81 Carlford Close, Martlesham Heath,
Ipswich, Suffolk IP5 7TA
Tel: 0473 626954

Scribble PD
2 Hillside Cottages, Burstall IP8 3DY

Roberta Smith DTP
190 Falloden Way, Hampstead Garden
Suburb, London NW11 6JE
Tel: 081-455 1626

Jorvik Public Domain
22 Hemlock Avenue, York YO3 9DG
Tel: 0904 624637

PD-SOFT
1 Bryant Avenue, Southend-on-Sea,
Essex SS1 2YD
Tel: 0702 617123

Craig Holmes Non-Profit PD
23 Rocester Avenue, Wednesfield,
Wolverhampton, West Midlands
WV11 3AU
(send a cheque for £1.50 made payable to C Holmes)

F1 Licenceware
31 Wellington Rd, Exeter,
Devon EX2 9DU
Tel: 0392 493580

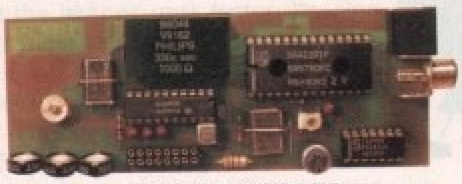
AS SOLE UK DISTRIBUTORS WE OFFER FULL TECHNICAL SUPPORT (2-4pm EVERY DAY) AND UPGRADE SERVICE. FREE BBS SUPPORT 24 HOURS. DEALER ENQUIRIES WELCOME. TALK TO US ON INTERNET TOO!



PICASSO II

PICASSO II is a graphics card with a difference, offering true retargetable graphics on any Zorro based Amiga. The installation is quick and simple. Just plug in the card, connect the cables and run a fully automatic install script. You will then find new *Picasso* resolutions available from the standard preferences ScreenModes program, all useable by OS friendly programs. The new CHUNKY option offers incredible speed with a 256 Workbench which is many times faster than AGA! *Picasso II* will intercept any program on it's first run, allowing you to tests it's compatibility and set your preferred screen choice thereafter. All screens are stored in Fast RAM, hence removing the 2Mb Chip RAM limitation. Total screen configuration is provided through PicassoMode, which allows the creation of custom screens quickly and simply. *Picasso II* comes with TVPaint Junior and drivers for ImageFX, AdPro, ImageMaster, Real 3D and GIF, IFF, JPEG and MPEG viewers. Also included is the MainActor animation program, and a TVPaint 2.0 option is also available.

PICASSO II 2Mb	**£349.95**
With TV PAINT 2	**£499.95**



PABLO ENCODER

PABLO is the new Video Encoder option for *Picasso II*. It offers the user two additional video ports, one standard Composite Sync Signal, and one S-VHS (Y-C) compatible port. All PAL compatible video devices can be plugged into Pablo, such as a colour TV or a video recorder. To Genlock, a Time Base Corrector is required. There are five resolutions available, these being 320x256, 320x512, 640x256, 640x512 and 768x576 in all colour depths including HighColour and TrueColour! A protective circuit integrated into Pablo ensures that no modes with more than a 15KHz line frequency can be routed through Pablo so you can safely switch to higher resolutions for your normal computer display. Pablo is supplied with all cables/adapters, Animation examples and *MainActor Professional*.

PABLO ENCODER **£149.95**

MAINACTOR PROFESSIONAL

MainActor Professional is a modular animation package for the Amiga. It features intelligent caching, so if you don't have enough RAM you can play animations from any device i.e. play/edit/create a 400Mb animation on a 2Mb Amiga. With OS3.x you will get added speed as well as animations in a resizeable, scrollable window with colours adjusted to screen attributes. Sound support allows you to associate sound effects to every frame. There are animation loaders for Real-3D, IFF-Anim3, IFF-AnimJ, Picasso, AVI, GIF, FLI, FLC and DL. There is also an external player, MainView plus lots more. You can play all your animations directly via the Picasso II board (which fly in Chunky pixel mode!)

MAINACTOR PROFESSIONAL **£ 49.95**

Liana is a simple but powerful peer-to-peer network for connecting two Amiga computers directly via their parallel ports. Liana will work with all Amiga's and it's network driver is completely SANA-II (standard software interface for network protocols of Commodore) compatible. This means all networking packages using SANA-II will work with Liana (e.g. Commodore's TCP/IP package release 2 or ENVOY). Liana is supplied complete with the Commodore networking package ENVOY, which offers FileSystem import and export, network printing and multi-user support together with an easy installation and configuration procedure.

LIANA NETWORK **£ 59.95**



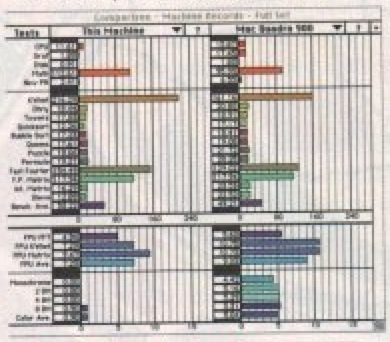
EMPLANT

Emplant is a very special product. It is the only hardware that offers multiple multi-tasking emulations from a single board. Here are some of the features of *Emplant*.

- *Compatible with all Zorro II/III Amiga's.*
- *Utilises Amiga memory, AmigaDOS devices, parallel/serial ports and Stereo sound capabilities.*
- *Extensive Video Driver support (ECS/AGA, Picasso II, Piccolo, Retina/Z3, Merlin, EGS, OpalVision,Rainbow II/III, etc.) including 16, 256, 65K & 16.8 million colour displays.*
- *SCSI Support (Hard Disk, Scanners, SyQuest, CD-ROM etc.)*

MACINTOSH EMULATION

The generic Mac emulation will perform as a Quadra 900 on a 68040 Amiga, and a IIci on a 68030 Amiga. All known software runs. The Mac emulation supports System 6.x/7.x, Hard drives, AmigaDOS partitions, Virtual screens, Stereo sound, File transfer, Printers, Modems, MIDI, SCSI peripherals, AppleTalk etc. Floppy support includes Emplant, Amax, IBM 720K/1.44Mb, Mac 800K (via AMIA) and 1.44Mb.



Here is a real performance comparison using the Mac program Speedometer. It shows an Amiga 4000 with Emplant matched with a Quadra 900, 68040 at 33MHz! The Amiga is, of course, still running too!

EMPLANT ON AN A4000/040

IBM PC EMULATION

The new IBM module is a true 486DX compatible emulation, including CPU, MMU and FPU. It will support normal/protected modes and run Windows 3.x, DOS 6.x, OS/2, application and leisure software.
Speed is dependant upon your 68xxx processor and is gained from a combination of custom logic, software and the Amiga! The emulation will offer colour VGA on AGA machines, and colour SVGA with a supported graphics card such as Picasso II. SoundBlaster Pro support is built in too. Please call for availability.

EMPLANT BASIC	£299.95
EMPLANT OPTION A *(AppleTalk/Serial ports)*	£349.95
EMPLANT OPTION B *(SCSI Interface)*	£349.95
EMPLANT DELUXE *(Options A and B)*	£499.95
EMPLANT IBM MODULE *(Call for availability)*	£ 99.95
AMIA (AMIGA-MAC INTERFACE ADAPTER) *Allows the connection of a real 800K Mac drive*	£ 59.95

SPECIAL SUMMER OFFER

DEDUCT
£50.00
WHEN YOU ORDER ANY EMPLANT BOARD WITH A PICASSO II 2Mb CARD!!

BBS

Please try our Free support BBS : 0908 310208 !!!!!

OS 3.1

KICKSTART AND WORKBENCH !!

THE FULLY LICENSED COMMODORE OS 3.1 RELEASE IS NOW AVAILABLE!
Each pack comprises ROM(s), Disk set and English manuals. The following versions are available :

A500, A1500 and A2000	*£ 84.95*
A3000 and A4000 (inc. 3000/4000Tower)	*£ 94.95*

Update today and breath new life into your machine!
2/3000 owners - 256 colour Workbench with Picasso II !

Picasso II 2Mb + OS3.1 2000	*£419.95*
Picasso II 2Mb + OS3.1 3/4000	*£429.95*

With the above bundles, you can run all OS friendly software with 256 colour support, and use the new super-fast 256 colour *CHUNKY PIXEL* Workbench!

KEEP YOUR AMIGA UP TO DATE !!

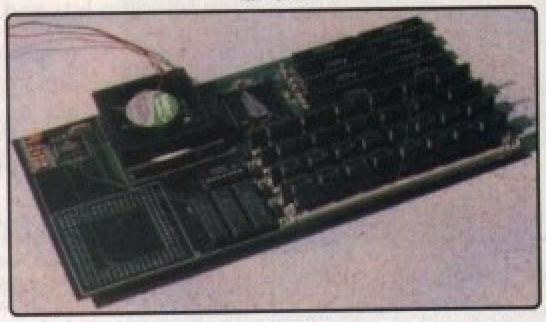
CD-ROM OPTIONS & PHOTOWORX

PhotoWorX is the only Kodak™ licensed Photo-CD software for the Amiga. With any of the following CD-ROMs you can incorporate high quality images (and your own photographs) into DTP and support a host of CD based software. PhotoWorX features includes :

- *Allows loading of a images (Memory dependant).*
- *Supports all Amiga resolutions (including AGA)*
- *Supports the Picasso II, Retina and EGS boards.*
- *Provides numerous image-processing features :*
- *Detail Magnifying, Colour Corrections, Mirror, etc.*
- *Saves in any Amiga IFF file format (16 to 24 bit colour).*
- *Prints to all Amiga compatible printers, including colour.*
- *Comes complete with manual and a Photo-CD.*

PhotoWorX	£89.95
With CD-ROM Drive	
PhotoWorX + Toshiba XM 4101	£244.95
PhotoWorX + Mitsumi FX 001D	£194.95

Full CD-ROM Solutions
For A1500, A2000, A3000 & A4000
PhotoWorX + Toshiba XM 4101 + Oktagon SCSI controller
£349.95
PhotoWorX + Mitsumi FX 001D + Tandem CD/IDE controller
£249.95
For A600 & A1200
PhotoWorX + CD1200 controller + Mitsumi FX 001D
£249.95



X-CALIBUR

X-CALIBUR is a uniquely designed accelerator and RAM expansion piggy back unit for the A4000/040 which does not use a precious Zorro slot. It has the capacity to hold on-board 128Mb of SIMMS (Standard 72-pin type as found on the A4000). With it's innovative memory design, the X-Calibur out performs the regular A4000/040 memory access by 400% at 25MHz! This translates to an average of around 80% and disk access improvement of 10- 20%. You can use the actual memory module of the A4000/040 (only Fast RAM) and gain the speed instantly. Faster upgrades (40MHz and a 68060 version) are planned in the future. Fitting service available. Fully compatible with Emplant for a world beating Mac/IBM emulation engine!

X-CALIBUR **£499.95**

BLITTERSOFT. 40 COLLEY HILL, BRADWELL, MILTON KEYNES, BUCKS. MK13 9DB
TEL: 0908 220196 FAX : 0908 220196 BBS : 0908 310208
Internet on : paul@bsoft.demon.co.uk

P&P NEXT DAY £8.00 CREDIT CARD ORDERS ATTRACT A 2.5% CHARGE. E&OE

SYSTEM

Your essential guide to the world of Amiga gaming

Under the system's spotlight this month

Once upon a time...

Sierra return with the sixth fairy-tale installment of the King's Quest series



SYSTEM ANALYSIS

SYSTEM PREVIEW

BEAT the System

Turbo-powered Team 17



Coming in October is All Terrain Racing, created by the guys who were responsible for Body Blows, Qwak and Nitro

The Wakefield-based software house is lining up a whole host of releases which will be coming your way over the next few months. The first is the budget re-release of Overdrive. Featuring 20 circuits, power-ups and a serial link-up for two player challenges, this budget release, at £10.99, is sure to be an essential buy.

Team 17 also has an original full-price release due in October. All Terrain Racing promises to be packed full of bump 'n' collide racing mayhem. The graphics are by Danny Burke of Body Blows fame, while the coding is being handled by Jamie Woodhouse, the geezer behind Qwak and Nitro.

All Terrain Racing features three different vehicles and a simultaneous two-player battle mode. The game will be available on the A500/600, A1200 and the CD32.

System have also managed to obtain screenshots of Team 17's forthcoming shoot-'em-up sequel spectacular, Super Stardust. The game, scheduled for release in September, has been completely re-designed and now features 256 colour graphics.

system online



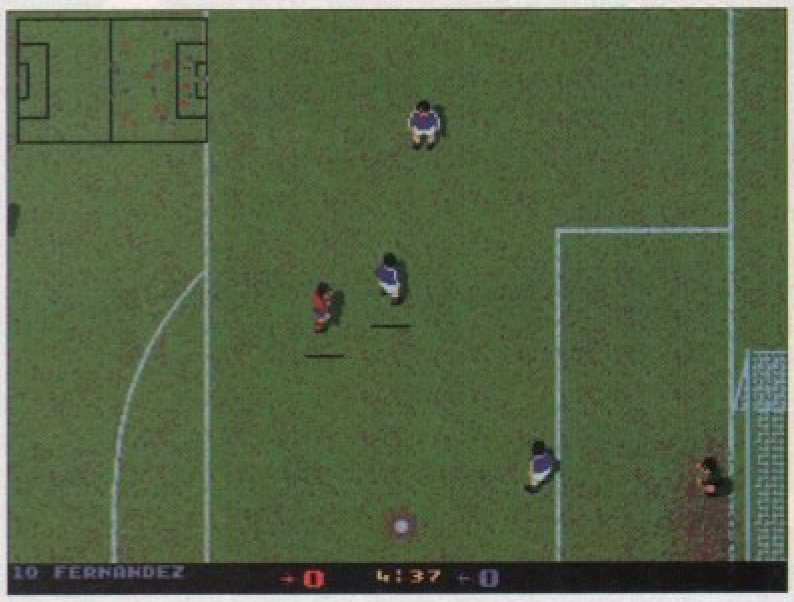
It's all quiet on the gaming front, but come autumn you won't be able to move for games. System does the rounds to see what's coming soon for your Amiga...

Going for goal!

The World Cup is now over and I bet you've been as surprised as System at the amount of football games sitting on the shop shelves. You'll not have been able to afford all of them, but Empire have come up with what is surely the best-ever football compilation pack.

Empire World Cup Year '94 contains Sensible Soccer, Goal, Championship Manager '93 (plus it's '94 data disk) and Striker. For football aficionados this is surely a compilation sent from heaven, but I suppose the majority of games players have got at least one out of the four games.

If you haven't got any of these games then this is your lucky day, because Empire World Cup Year '94 costs only £25.99 which works out at about £6.50 per game.



Daze on the ball



On The Ball is the UK version of an extraordinarily successful German football game called Anstoss, which has been at the top of the German software charts for practically the whole of this year.

A development team of 20 took on the task of creating the game, including such features as live running commentary and a four-player mode.

One of the key factors of On The Ball is its strong graphical presentation. The animated TV-style coverage was produced by two experienced illustrators from German television.

Together they spent over three months illustrating the action sequences. Over 420 individual animations sequences, including shots at goal, corners, penalties, fouls and goals, all viewed from different angles were produced.

The final result is over 45 minutes of "live" animated action, compressed onto one disk so that no disk swapping is needed in the middle of a match.

On The Ball – World Cup Edition should be out by the time you read this, while the League Edition will be brought out at the end of August.

This will be completely updated for the new season and features the full Premier League and the First Division. The price is still unconfirmed, but Daze says it will be around the £29.99 mark.

A dip in the Ocean

Electronic Arts has just signed a deal with Ocean that enables the Manchester-based software house to bring many of EA's current console range of games to the Amiga.

The full line-up includes Skitchin' – the recent Road Rash variation on roller skate – Jungle Strike – the sequel to the highly popular Desert Strike – NHL Hockey, Mutant League Hockey, PGA European Tour and Shaq Fu, the forthcoming beat-'em-up based around the NBA superstar, Shaquille O'Neal.

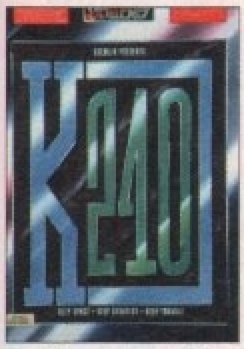


A screenshot of the breath-taking Super Stardust and I guarantee that your jaw will drop open when you see this little baby in motion



If you're feeling the need for speed then Overdrive, Team 17's next budget release, should interest you

The gorgeous Gremlin goody bag giveaway competition



Those incredibly generous people at Gremlin Graphics, responsible for such amazing game titles as Lotus and Zool, have all clubbed together and given System ten goody bags.

These bags include all manner of Gremlin paraphernalia such as stickers, badges and T-Shirts, but, more importantly, they contain a brand spanking new copy of Gremlin's brilliant strategy space game, K240. All you have to do to win one of these fine Gremlin goody bags is answer the three questions correctly on the competition form, scribble your name and address down and send it into:

System Gremlin Goody Bag Giveaway, Amiga Computing
Europress Publications, Europa House
Adlington Park, Macclesfield SK10 4NP

Gremlin Goody Bag Giveaway

Name: ______________________

Address: ______________________

____

Q1. Which of these games was not created by Gremlin?
- ☐ *Lotus 3*
- ☐ *Hero Quest 2*
- ☐ *Banshee*

Q2. Which dimension was Gremlin's Zool from?
- ☐ *Third*
- ☐ *Nth*
- ☐ *Fifth*

Q3. K is the symbol for which element?
- ☐ *Potassium*
- ☐ *Iron*
- ☐ *Carbon*

The closing date for the competition is: 25th August 1994

System Technology

The world of computers is ever-changing and System is here to keep you aware of what else is happening throughout the industry.

- Phillips has revealed its new re-styled, lower-priced CD-i unit. Called the CD-i 450 and aimed specifically at the games market, the machine made its debut at the Summer CES show in Chicago and is now on sale in the US. The European launch of the machine is scheduled for September, but Phillips have refused to comment, as yet, on a UK price for the CD-i 450.

- Nintendo has rejected the name "Project Reality" for a new official monicker of Nintendo Ultra 64. They stressed that Project Reality was always just a code-name for the forthcoming machine. Nintendo has also signed up Acclaim as the first official third-party publisher for the machine, which is being produced in conjuction with US computer hardware firm Silicon Graphics.



- Although only 2000 units have been introduced into the United Kingdom, the Jaguar has become an instant hit and sold out of stocks in "most places". The limited stocks have been allocated exclusively to independents through SDL, with fellow distributor ZCL and chainstore Rumbelows expected to take deliveries of Atari's machine very soon.

- Panasonic's plan to launch the 3DO in the UK at under £400 could be under threat from an EC import duty of 14 per cent. Panasonic are lobbying in Brussels to overturn the machine's classification as a video cassette recorder, which carries the awful tariff.

  With the UK's VAT rate of 17.5 per cent, Panasonic is facing a total tax charge of 30 per cent. The company wants to launch at £399 but is, at the moment, avoiding a final decision.

System Selections

Out of touch with the latest Amiga games scene? These elite selections from the last few months should put you back on the right track

Beneath a Steel Sky

Revolution Software has surpassed the amazing Lure of the Temptress with their latest adventure and I congratulate them on making such a fine adventure game.

Everything about it just oozes quality and over the last couple of weeks it's been a real pleasure to play. The graphics are good enough to marry and have children with and the gameplay and actual storyline are first-rate. If it doesn't go to the top of the software charts then I think there is simply no justice in this world.

Darkmere

This must surely rate as one of the best 3D isometric adventures ever to appear on the Amiga. It possesses a haunting style that is completely unique and seldom achieved in many computer titles.

Darkmere really is a pretty classy title. The graphics create such a mood that it gives the adventure an immediate head start over everything else it competes against.

It's contained in a huge playing area and includes objectives and puzzles that will hold your attention for a good while.

Arcade Pool

Arcade Pool can now be added to the list of Team 17 budget successes.

The game may have very nice graphics, but it's in the playability department where it excels.

There are so many different game styles that you'd be hard pressed to become bored with this piece.

For just under a tenner it is an amazing bargain, especially when you consider that it has actually been in development longer than most full-price games.

James Pond 3

Highly original it might not be, but fans of the previous games and platform lovers will be absolutely besotted with the third instalment. For sheer enjoyment and lastability, you'd have to go far to find a better platform game than Millennium's tasty third fishy adventure. If you're yearning for some fast, frenetic platform jumping fun, then I suggest you splash your cash on James Pond 3. You will not regret it!

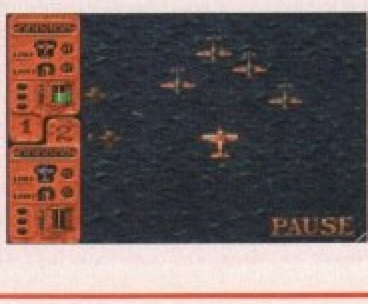
Benefactor



Benefactor is the best thing Psygnosis has released in a long time. It feels like a montage of Flashback and Psygnosis' very own genocidal pets, the Lemmings. Both the graphics and sound have been implemented very well. The variety of both location and puzzle aspect of Benefactor make it an engrossing challenge.

Benefactor is the type of title that will keep the most dextrous platform freaks and puzzle lovers alike twiddling well into the wee hours.

Banshee



I do like this game and the weirdest bit is, I've never been a fan of shoot-'em-ups! They usually bore me to bits, but Banshee has that elusive quality that drags you in. Each level demands new challenges which are genuinely tough, and the learning curve is just right.

This is an intense and extremely satisfying game that should tempt any games fan with an ounce of adrenaline in their veins. The Harvey Keitel of shoot-'em-ups.

The scores on the doors

System has a different scoring system than any of our competitors, so before you continue reading the mag, glance at the words below t o find out exactly how it works.

I'm sure many of you are now familiar with our new scoring system, but for those reading *Amiga Computing* for the first time and those who might have forgotten exactly how it works, here is our guide to the System scoring, err system.

In our opinion, review scores have lost their context as a percentage; some products receiving scores which were only a few percentage short of being the "perfect" game, when in truth they were only marginally above average.

OK, so the scores might seem unnaturally low at first, but that's only because other scoring systems tend to be on the high side and perhaps not as comprehensive or honest as they could be.

In the long run you'll receive a more concise and reader-orientated review that's geared towards the consumer.

0-20 This is given to the lowest of the low

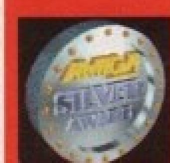
21-30 An all-round poor game that may have a single saving grace

31-40 Just below the average, perhaps let down by a few indiscretions.

41-55 Games of this score are roughly average with 50 being a perfectly average score.

56-66 This is an above average game and is worth buying. For this reason it would be awarded the BRONZE award.





67-77 A game of high quality that you as a reviewer would have no reservation in recommending. Anything of this ilk would be awarded the SILVER award.

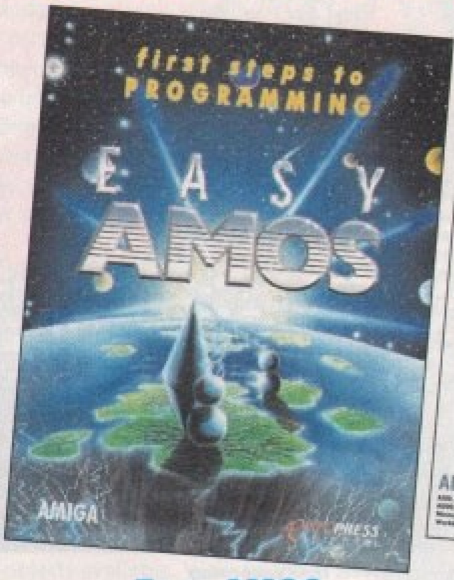
78-89 A brilliant title. Definitely worth buying and almost the definitive of its kind. This type of game would receive the GOLD award.



90-100 The best in its genre. This benchmark title receives the PLATINUM title.



AMOS-The ultimate programming tool







Easy AMOS

- An ultra-friendly easy-to-use beginners' guide to programming.
- Helps you create impressive graphics, scroll text and add music to your creations.

AMOS Professional

- Essential for the more experienced programmer.
- Vastly enhanced version of the original AMOS.
- Includes 650 page manual to get you started.

AMOS Pro. Compiler

- Gives your creations a kick-start
- Simple to use – compiles in seconds.
- Includes latest update to AMOS Professional

Write programs, create games, produce impressive graphical effects, scroll text, the list is endless...
If you're a complete beginner or an advanced programmer, AMOS is for you.

Your AMOS Specialist Dealer

Wales
Mertec Computers 0792 467980

Midlands
Comtazia, Merryhill 0384 261698
Coventry Computer Centres, Coventry 0203 223081
M.T.S. Kidderminster 0562 745451
Miles Better Software, Cannock 0543 466580
Soft-Ly, Milton Keynes 0908 670620
Spa Computers, Leamington Spa 0926 337648
Town Computers, Hanley 0782 287540

North West
Bolton Computer Centre, Bolton 0204 841937
Burnley Computer Centre, Burnley 0282 34772
Castle Computers, Lancaster 0524 61133
Computer World (UK), Bolton 0204 495011
P.V. Computers, Accrington 0254 235345
Vu-Data, Ashton Under Lyne 061 339 0326
Vu-Data, Stockport 061 477 6739

Yorkshire
Computer Store, Wakefield 0924 290159
Computer Store, Huddersfield 0484 514405
Computer Store, Doncaster 0302 325260
Computer Store, Leeds 0532 429284
Computer Store, Meadowhall 0742 569121

North East
CHIPS Computer Store, Middlesborough 0642 252509
CHIPS Computer Store, Stockton on Tees 0642 618256
Topsoft, Stockton on Tees 0642 670503
Tomorrows World, Hull 0482 24887

South East
Comtazia, Cheltenham 0242 252767
Computer World, Canterbury 0227 766788
Database, Thurrock 0708 890976
Estuary Computers, Southend on Sea 0702 614131
Gamer, Brighton 0273 728681
Hobbyte Computers, St Albans 0727 856005
Invicta Software, Tunbridge Wells 0892 511542
Logic Sales, Cheshunt 0992 625323
Logic Sales, Peterborough 0733 349696
Platinum Personal Computers, Rayleigh 0268 778909
Platinum Personal Computers, Leigh on Sea 0702 471062

South West
A&C Computers, Aldershot 0252 319140
A&C Computers, Alton 0420 541167
Barkmans, Kingston Upon Thames 081 546 5941
Barkmans, Ealing 081 840 4114

For your nearest Game dealer telephone Head Office on: 081 974 1555

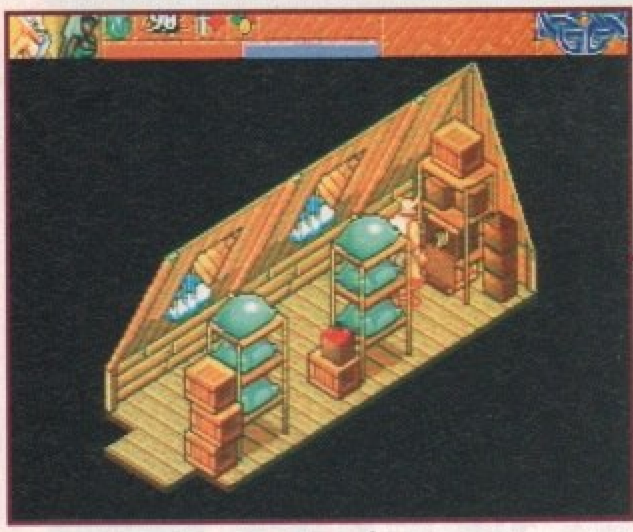
	AMOS	AMOS Compiler	AMOS 3D	Easy AMOS	AMOS Professional	AMOS Pro. Compiler
AMOS		Compatible	Compatible		Upgradable	Compatible
AMOS Compiler	Compatible			Incompatible	Compatible	Upgradable
AMOS 3D	Compatible			Incompatible	Compatible	
Easy AMOS		Incompatible	Incompatible		Upgradable	Compatible
AMOS Professional		Compatible	Compatible			Compatible
AMOS Pro. Compiler	Compatible			Compatible	Compatible	

To check compatibility, select an AMOS product from the left hand column and read across.

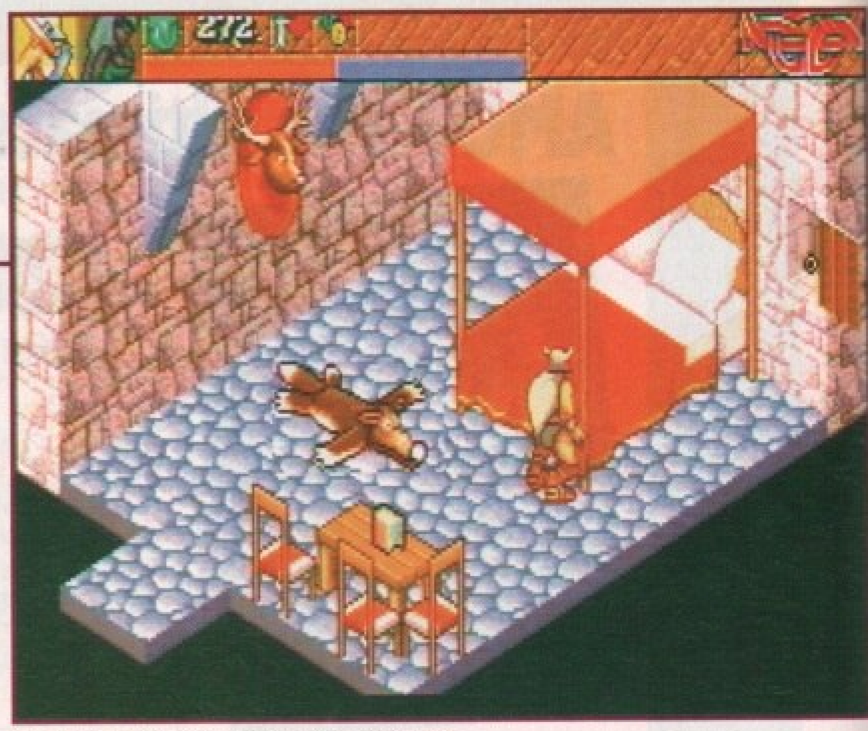
To find out more about AMOS telephone Europress Software on 0625 859333

europress SOFTWARE

Europress Software, Europa House, Adlington Park, Macclesfield SK10 4NP
Tel: 0625 859333 Sales: 0625 859444

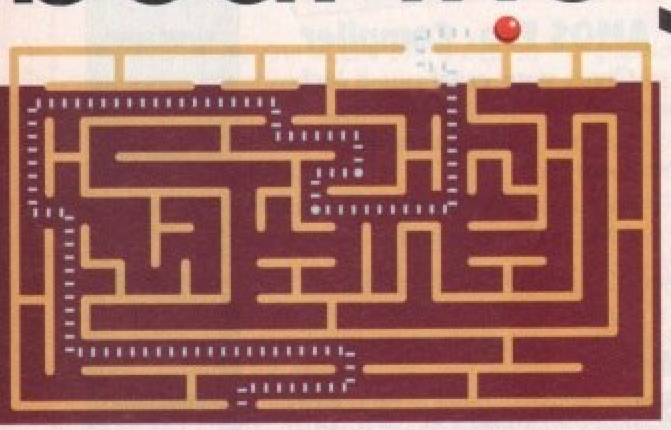


Hidden away at the back of a cupboard, the circlet



The secret button which reveals the cygnet ring

beat the system



Are you tired of running around the fjord's of Scandinavia like a headless chicken? Well, in that case read on for some welcome relief of the Heimdall 2 kind

You start as Heimdall himself in the Hall of Worlds, so the first thing you should do is switch to Ursha and walk over to the bow and arrow.

After you've equipped her with the bow and arrow, remember to use Ursha especially on dangerous tasks because if she perishes you can continue, whereas if Heimdall is killed the game is over.

Move to the only entrance that darkens when you approach it and begin the search for the first part of the quest.

Once through you'll see two obelisks. If you release an arrow at the obelisks then one of the following will occur. The one on the right materialises a Hakrat, which will only add to the difficulty of your quest. Conversely, the obelisk on the left reveals the rainbow bridge onto which you can walk.

At Rurick's village,the first thing to do is to enter all the huts and search for equipment. On entering a building that looks like a store room, open the box towards the rear of the room and you will find the circlet inside.

After this, proceed towards Rurick's hut and speak to him. He'll tell you about Eadric and ask for your help. From here, leave Rurick's village, head to the map screen and steer a course for Eadric's village.

Go to Eadric and offer him the circlet as a peace offering. He'll give you a letter to return to Rurick, confirming the peace. Now, enter the pub for some intoxicating conversation about your quest, and re-live a moment from the original Heimdall game.

Return to Rurick's village and give him the letter offering peace. In return he'll give you a pass which will allow you entry past the guard into the king's castle.

Give the guard the pass and enter the castle. Once you're in the main hall take the right exit and enter the kitchen. Climb the stairway and talk to the serving girl – she'll tell you what to do next.

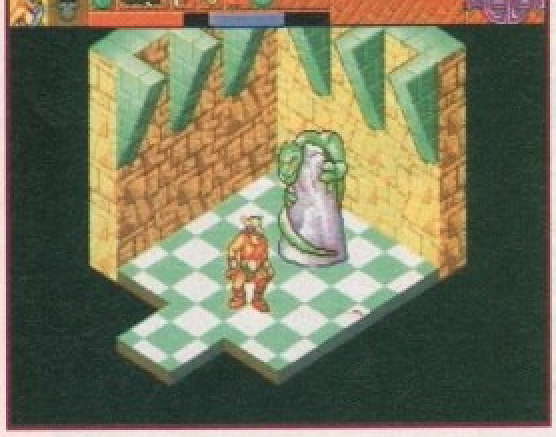
Follow her instructions and go to the corridor with the large picture whose eyes follow you. Push the painting and the door should slide back to reveal a passageway.

Go into the bedroom, collect the rune book and press a fairly well-hidden button on the right-hand side of the four-poster bed. The button will release a catch which opens a secret hatch in the wall that contains a signet ring.

Take the ring and go to the guard who is blocking access to the stairway. Give him the ring as formal identification of the King and walk down the stairs. A Hakrat, who seems especially awkward to kill, waits in the next location.

At this point in the proceedings you have two choices – attempt to kill the Hakrat using some cunning, or travel to the Giant's Isle and use a little bit of cheating to strengthen Heimdall.

If you wish to use this technique, jump ahead to the sub-section dedicated to the Giant's Isle. The cunning way to defeat the Hakrat is to fire an arrow into



The first of five pieces of the Ro'Geld is discovered

Ah, you've Rune'd it

MPM≠	Slow enemy
ΨΠ	Shield 1
BPF	Cure poison
S↑	Fire bolt
B	Lesser heal
B≠Π	Mass heal
BΠ	Heal
ΨF	PF poison
♀⊬	Disintegrate
S↑≠	Fireball
↑ΠS	Shield 2
✱PF	Make invisible
ΨS	PF fire

the room beyond. Hopefully he'll follow it in, and, as the room is booby trapped, he'll be minced.

However, if for some reason your arrows miss and he bears down on you into a position where he'll never follow the arrow, you'll have to slug it out with him, and that could be dodgy.

Once you've killed him (by whatever means), approach the two prisoners. One of them is the King's brother – he'll give you a letter to take to the King.

When you visit the King's chamber his adviser will vanish as he realises that his deception has been uncovered. At the same time a forcefield blocking access to a passage at the top of the stairs will disappear.

A little warning – don't drink the bottle of beer that's left on top of the King's table as it's poisoned.

Climb the stairs and enter the next location. You'll see that the path is missing and access is blocked. Shooting your arrows into the three holes will fill the path and allow access to the next room.

Touching the statue releases a skull which is the first piece of the Ro'Geld. Leave the island and sail to the Fisherman's Isle.

Once on the Fisherman's Isle, enter the fisherman's hut and pick up all the objects available. Walk to the rear of the hut and open the wardrobe door. You'll



Heimdall 2

discover the fisherman who'll tell you about the plight of his daughter.

At Loki's shrine walk in to the portal when it's the correct colour – the fisherman will inform you which is best, so pay attention to what he says.

When you've rescued his daughter she will give you a talisman which will grant you access to Utgard, the second world.

Once in Utgard, on the Dwarven Isle, speak to the dying man at the foreground of the battlefield and he will tell you to meet him in the half-world. Shoot an arrow into the circle of fire by the standing stones and you'll enter the half-world.

Return to the man and talk to him again and he will tell you how to get into the castle using his armour and will give you a letter. Go back to the circle and shoot another arrow into the fire – you'll now be back in the normal world.

PROTECTION

Walk to where the man lies and pick up the armour that sits by his side. Put it on and enter the castle. Find the King's chambers and give him the letter. In return the King will give you another letter.

Search the castle and pick up the Rainbow ring which is on a table at the top of the stairs. Find the shop and buy yourself the large axe as it's the best weapon available presently for hand-to-hand combat

Leave the castle via the main lobby's far-right exit, rather than the one which leads back to the battlefield, and you'll reach the Utgard map.

If you read the earlier part of this guide then



The world of Utgard

you'll remember that I mentioned travelling to Giant's Isle to strengthen Heimdall.

Being extremely brave you must attack the giants that guard the rooms. They are very difficult to kill, but do uprate your attack strength.

At this stage of the game your attack strength should be about nine or ten, but by continually striking blows with the axe at the giant you can eventually reach the highest achievable strength of 99.

If at any point your own health bar drops to a risky level, leave to the safety of the previous room (he won't follow) and cast a healing spell on yourself.

1

Anyway, you should benefit from this extra muscle from here on. To get past the Giant's Isle you must first enter the ice god's room and fill your flask with water.

Then, go back into the fire god's room and throw the water into the fire – an ice bridge will appear across the water in the ice god's room.

Kill the second Hakrat (be careful, everytime you kill one they return, but you should make mince of them by now with your enhanced brawn) and throw the cygnet ring into the sphere of light.

Be careful when throwing that you get it right, because if you don't the ensuing Hakrat could pick it up.

In the giant's HQ, use your dexterity to avoid the fire-balls as you make your way along the path. Once over, push the candle over, pick up the talisman and return to the Hall of World's.



Guide Heimdall through the flame spitting path

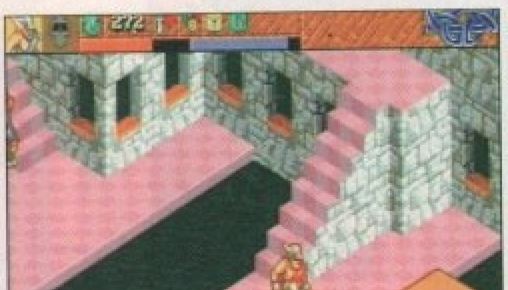
2

As soon as you journey to the Lost Clan Isle of Utgard 2 you'll be thrown into a cell. Fortunately, there's a piece of bread that has been conveniently left around.

Push the bread and the rat will come over to it. As a token of his gratitude he'll open the cell door for you. Jump into the sewer and follow it to the next location.

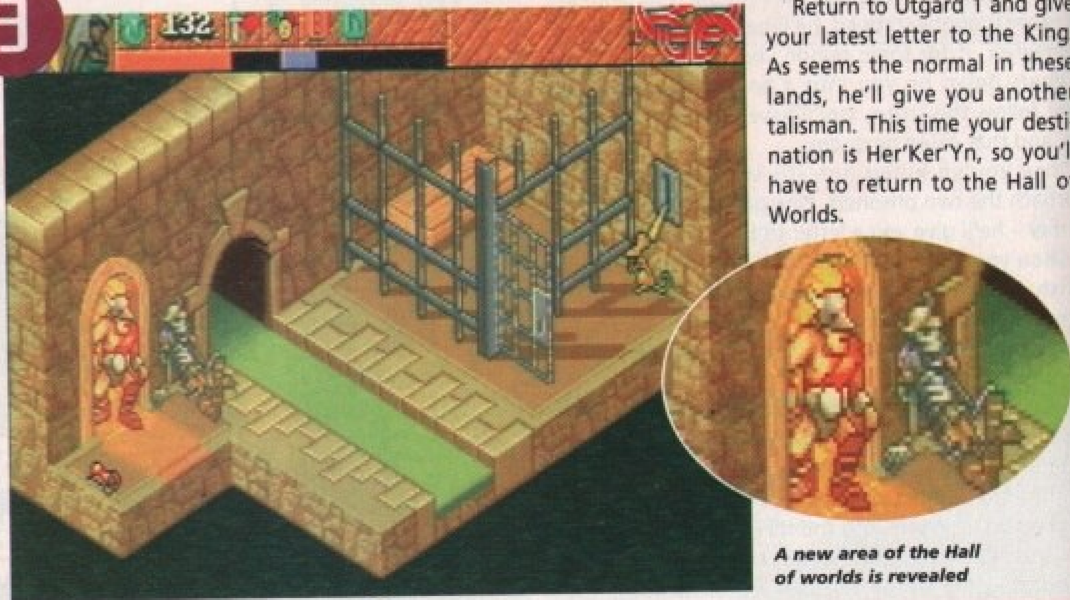
Ignore the bottle as it's a booby-trap and proceed into the dwarven King's chamber. Give your letter to him and he'll return the favour and give you yet another letter.

Go down the stairs on the right and take the second piece of the Ro'Geld from the skeleton you saw earlier on the other side of the sewer.



The next piece of the Ro'Geld is recovered

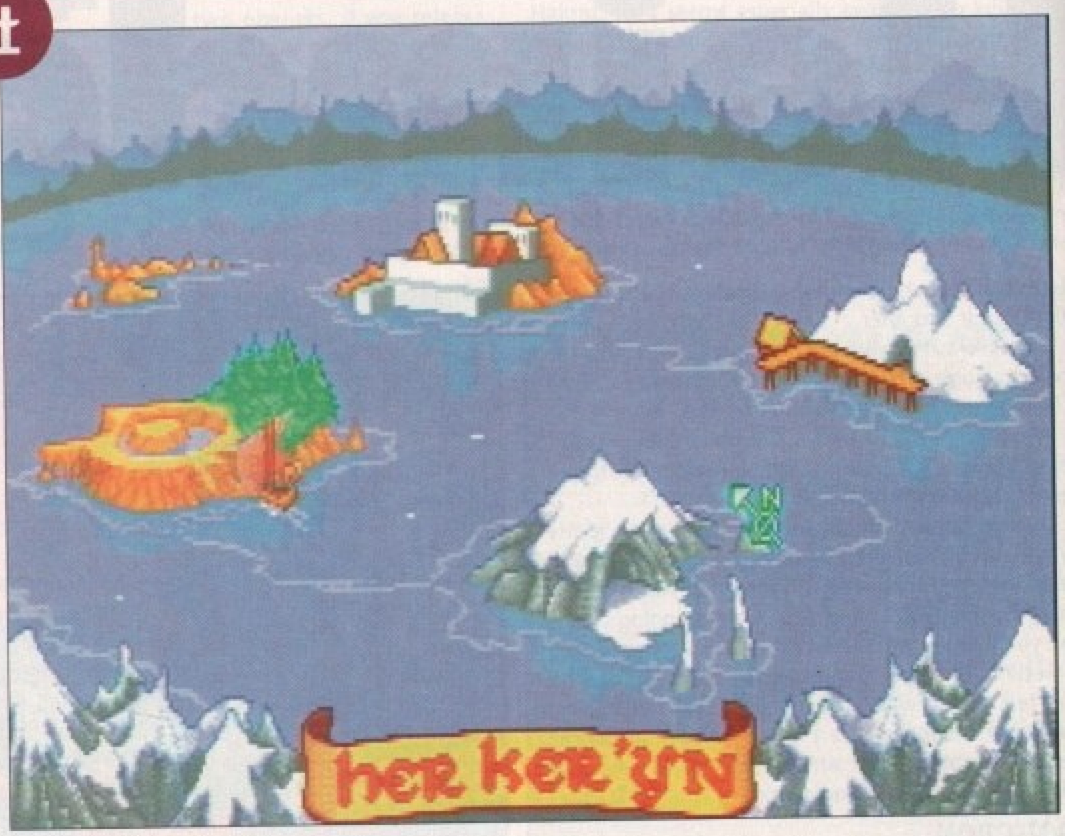
3



Return to Utgard 1 and give your latest letter to the King. As seems the normal in these lands, he'll give you another talisman. This time your destination is Her'Ker'Yn, so you'll have to return to the Hall of Worlds.

A new area of the Hall of worlds is revealed

4



What a Malady – spiky balls

At the Druid's grove speak to the Druid, then speak with the entity that appears. You'll now know a little more about the overall scheme of the game. Find the map screen for Her'Ker'Yn and head for the Dakta village.

When your boat docks at Dalta village ignore the Dakta who stands at the jetty and walk on – while this might seem pointless now, it'll be vital when you come to be judged.

Find the armoury and kill the Dakta who is giving the prisoners a hard time. Then, speak to the man who is crafting a sword and he'll give it to you.

Find the pub and kill the Dakta who is sitting around. Then, move on to the next room and kill the two Daktas who are in charge of the village. After the carnage is over, return to the map screen and proceed to the Dakta HQ.

Here, your first task is to get passed the spike ball. You can afford to get it wrong a number of times, although it does sap some of your power.

Getting it right calls for good timing because you've to jump down and then slide into the far alcove. Inside the alcove is a switch which, when pressed, makes the steps appear.

5

Enter the room with the mound of gold in it. Now's not the time to be greedy – get too close to the gold and you'll end up taking a nasty poisoning from something that resides inside the pile. Instead, go to the top of the screen and click on the map on the front of the wall. An entrance will open up for you – go through it.

You'll have to defeat the mirror image of yourself (careful, he's pretty tough) and the Dakta. After this duel to death, take the talisman.

On the ???Island walk into the cave and wait for the first spider. Don't be put off by their size, they can only take about one hit if you've uprated your strength on the Giant's isle and are using the sword from the Dakta village.

Once you're past the spiders, your next task is to negotiate the tiles. You must use the clues on the scroll to work out the route across them.

You'll know you've achieved this as the pile of rocks diminishes as you get closer. Hopefully, when you reach the other side a passage should be visible.

CLUE – The first verse refers to the runic symbols for fire, lightning and healing.



Try getting this design from MFI

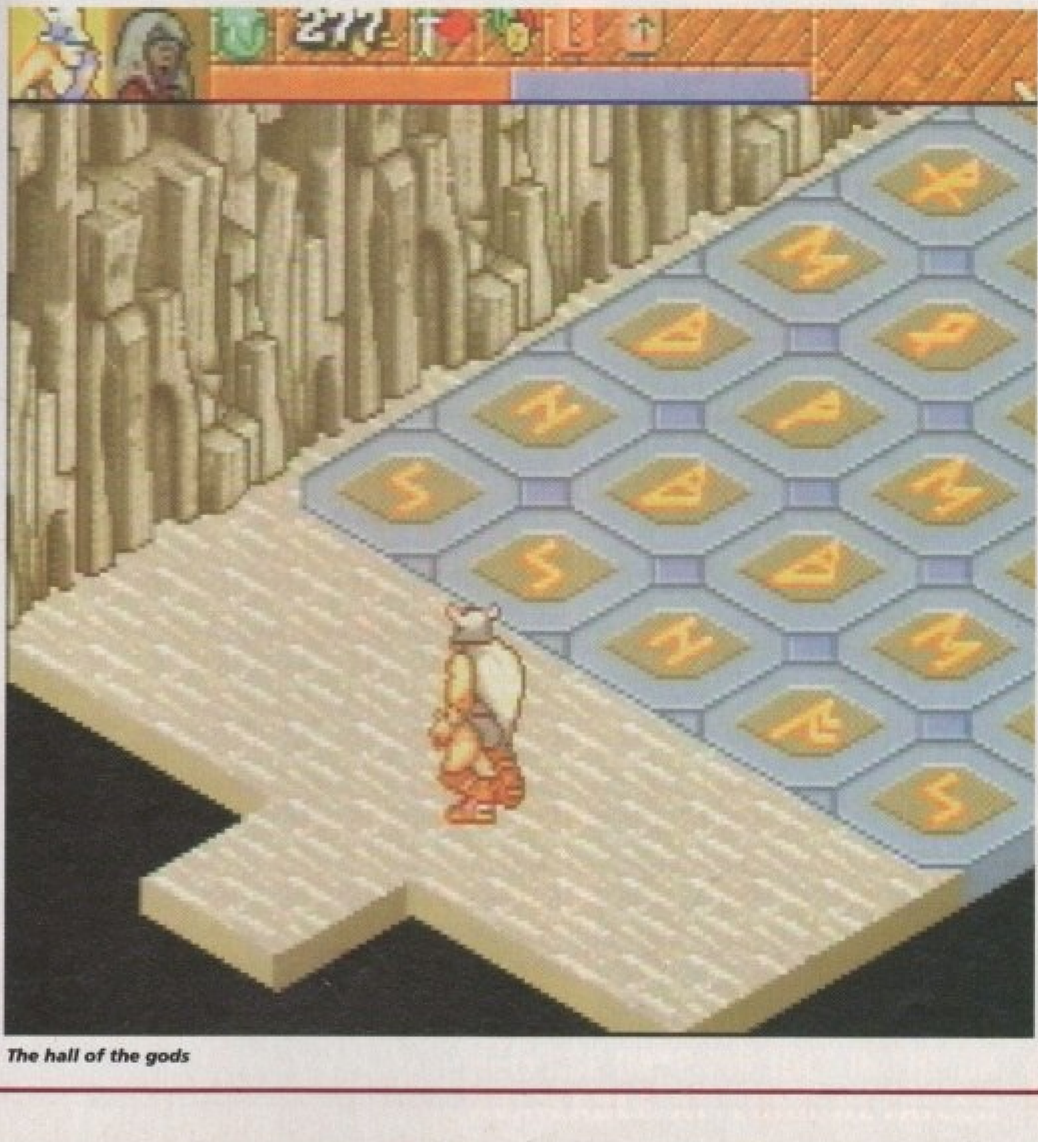


6

Once through, shoot the arrows into the three mouths to fill in the missing pieces of path. Be careful, take your time and avoid the flame. After you've completed the pathway, enter the next room and collect your prize – the next section of the Ro'Geld. Now return to the Hall of Worlds.

Tal Ker'Yn is the Hall of the Gods. After talking, enter the room on your first right. This is the death goddesses room – be careful. Firstly, kill Heimdall and Ursha by walking into the statue.

When they are both dead a light will appear and you should be able to walk a dead Heimdall through the light. Take the crown and the holy symbol, then walk the characters out of the room to reincarnate them.



The hall of the gods

A rune with a view

ᛊᚼᛤ	**Fire storm**
ᛉᚠᛡᛊ	**Full combat boost**
ᚺᛏᚼ	**Call lightning**
ᚱᚢ	**Create object**
ᛒᚼ	**Mass lesser heal**
ᚺᛏ	**Lightning bolt**
ᛉᛡ	**PF magic**
ᛒᛏ	**Extra heal**
ᛗᚼᛤ	**Teleport**
ᛒᛤ	**Resurrect**
ᛒᛏᚼ	**Mass extra heal**
ᛡᚠᚼᚢ	**Hall portal**
ᛉᚠᛊ	**Physical combat boost**
ᛉᛡᛊ	**Magical combat boost**

7

Now, enter the room directly opposite. This is Siri's chamber – the god of judgement. Place the crown on his head and await judgement. If you've done as instructed you should be fine. When I said earlier not to kill the Dakta on the jetty, it's for this reason.

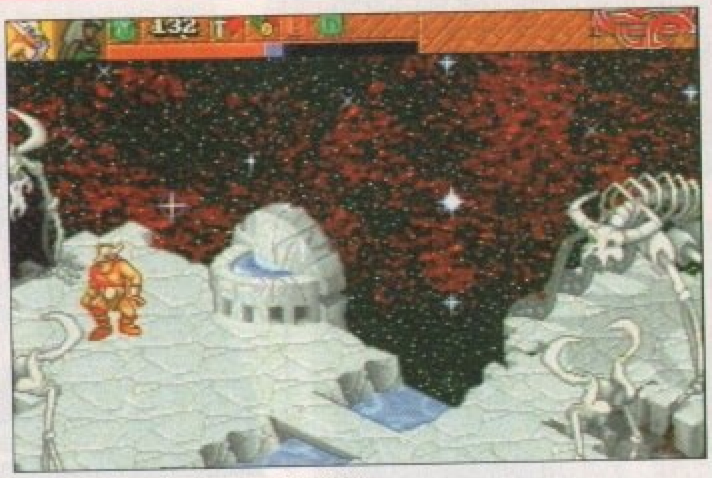


Oh no, not five years in chokey your honour

8

After you've been successfully judged, take the holy symbol and move on. Next enter the air goddesses cloud room which is located to the left of Siri's chamber.

Walk into the lightning to teleport yourself around the room. Pick up the shield, armour and helmet. Discard the helmet on the floor and a bridge should appear. Take the holy symbol and move to the next location.



The oh so floaty hall of Angel Delight.





9

Directly across from the air goddesses chamber is the god of the weak. Enter and kill him. Kill the other man that appears and take the holy symbol.

Move to the location at the top left and enter. This is the light goddesses room. Here there is a very tricky tile pattern to complete – be careful as you can wind up dead on this section. Once over, take the holy symbol and leave.

Next move into the top-right location. You should be in a room that resembles a garden. This is the nature god's chamber. To complete this section, take seeds from the three plants.

Drop them on the patch of grass (the plants you need are to the right of the grass with the big red buds) and a holy symbol should appear – take it and leave.

Go to the closed door at the end of the corridor and place the holy symbols on the spaces on the floor. After this, place the shield in front of the laser and take the final piece of Ro'Geld.

Return to the garden where Ander is and take a further symbol, then return to the Hall of worlds. Journey to the druid's grove on Her'Ker'Rn, give him the holy symbol, then walk through the gate in the trees .

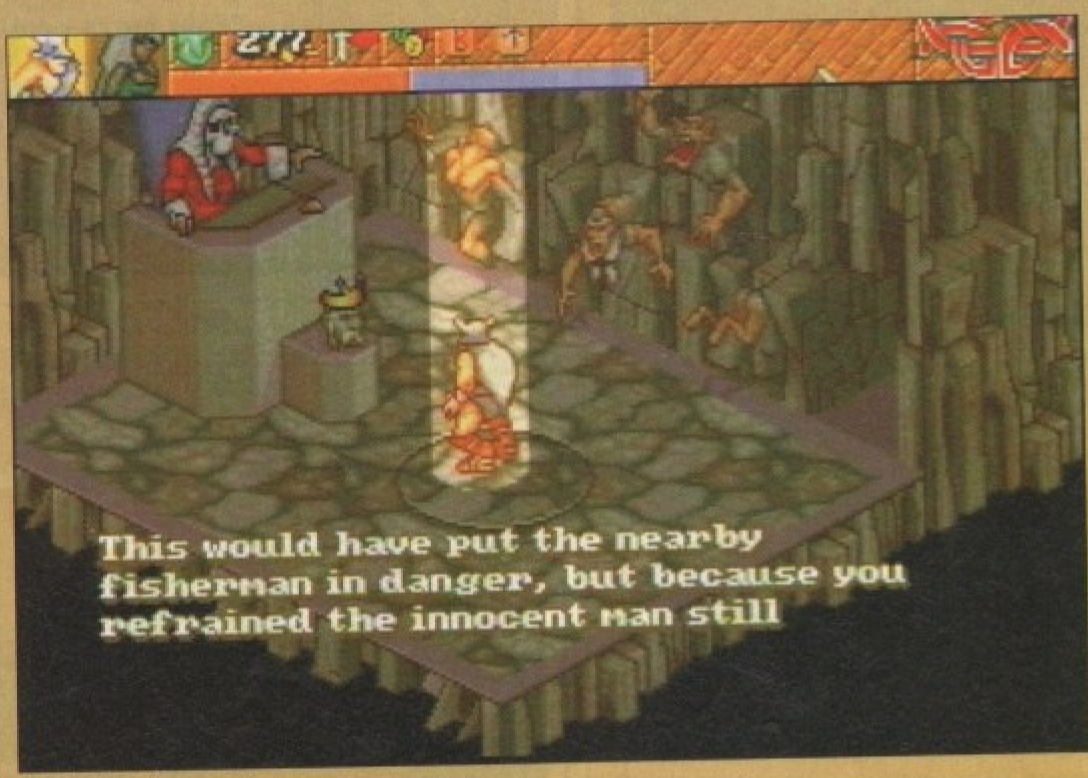
Walk on to the turtles back and take the fire sprite – doing this will get you teleported back to the hall of worlds.

Leave the hall and enter Nifl'Heim. Walk towards the lava onto the fire boat and take the dragons teeth. Walking on, you'll get to Loki's daughter.

There's a secret door to her right and beyond this three heads. Fire arrows at the heads and then walk through the door. Next, place a dragon's tooth on each red circle on the floor. Then walk into the main circle to be teleported.

NOTE – To separate the teeth, pick them up with the left mouse button and separate them with the right button.





Heimdall 2: Judgement day

Walk by the dragon's head and exit the room. Now kill the chief of the Hakrats and go into Loki's room. When you get teleported into Baldur's room, Ander will teleport you back to the Hall of worlds.

Definitely save the game when you get to Sho Ker'Yn. Now, make your way across the tiles and kill the doppleganger Heimdall and Ursha. Walk beyond the gate and you will find a Ro'Geld and the shadow of a character.

To retrieve the Ro'Geld, turn around so that the shadow is facing the Ro'Geld and press fire. Leave this section and into the room where you'll find a Dakta.

Destroy the Dakta, chop the rope on the wall and walk across the wooden plank into Ashok's room. Ashok is invisible so all you can do is throw the Ro'Geld at him.

Then comes the final confrontation with Loki. Defeating him will reward you a place in Valhalla

FISTSMASHIN'HEAD
STOMPIN'BLOODLET
TIN'GOALGETTIN'B
ACKBREAKIN'FINGE
RACHIN'BALLSHAK
IN'GUNTOTIN'MICKE
YTAKIN'CHARTSTOM
PIN'RIOTWARNIN'

BRUTAL SPORTS SERIES

WILD CUP SOCCER

MILLENNIUM

QUERN HOUSE, MILL COURT, GREAT SHELFORD, CAMBRIDGE CB2 5LD, TEL: 0223 844894

A WHOLE NEW BALL GAME
A500/600/1200 • CD32

RELEASE DATE 7th JULY IN THE UK
AVAILABLE AT YOUR RETAILER **£25.99** (CD32 TO FOLLOW)

INTRODUCTION

There is nothing like a frantic beat-'em-up for a quick aggression-letting bout with a joystick. The premise is simple: beat the living delights out of your opponent.

A wealth of fine quality beat-'em-ups have hit the Amiga in recent times and the more violent the better. But now Finnish software house, Terramarque, are breaking the mould with a new non-violent-type beat-'em-up involving cute elves. But will this concept take off?



Being a less violent game, the coin meter replaces a life meter if it runs out and you lose the fight



This character is well-protected by his flab and is a tough one to beat

Elfmania



The graphics brilliantly conjure up the atmosphere of the magical land of Muhmulandia



Seeing double – match the same players for a true contest of equal strengths

Tina Hackett is away with the fairies as she dons her pointy ears and green jerkin to explore a magical land of the elves in Elfmania.



STORYLINE

According to the ancient magical laws of Muhmulandia (the Land of the Elves) whoever challenges the Crown to an Honour Fight, and wins, will gain control of the country. Another, even greater prize also awaits. This is the mystical Dragon Fan which will reveal the secrets of the Universe.

It is a prize worth fighting for but you must give the king reason to fight, and to do this you must hire your own fighters to conquer the Champion Fighters – representatives of the King.

GRAPHICS



Graphically, Elfmania is absolutely stunning. The attention to detail paid in creating the backdrops is amazing. The scenes actually look three dimensional and with the backgrounds realistically fading into the distance, the overall impression of the setting is well conveyed.

Small details show the care with which the graphics have been made. For example, in each scene there is an animated object or character in the background. Doors open and spectators blink or move slightly.

Although only subtle details, which at first do go unnoticed, they work well, and unlike some games that try this approach it doesn't go over the top and distract from the gameplay.

70%



Get onto the bonus stage to build up your finances

SOUND

Music accompanies the fight scenes but it isn't particularly astounding – it's not one of those irritating, grating tunes but it doesn't really conjure up any atmosphere either.

A more fitting choice of soundtrack could have really enhanced the theme of the game and evoked more of an atmosphere.

The usual shouts and yells that fit in with the moves are included and quite realistically convey the action. All the characters have catch phrases which they use at the beginning or end of a fight. These work well and do create the feeling of the tournament spirit.

54%

FLASHBACK

Many beat-'em-ups have been released for the Amiga and in my mind Body Blows Galactic still reigns supreme. Granted, it may be more violent, but you do have a good choice of moves and characters available and graphically it looks superb.

Mortal Kombat, employing a different style altogether, also has more to it than Elfmania with regards to the action. Elfmania doesn't seem to pack quite the same punch as other games of this nature or give the same sense of satisfaction after a round well fought.

It does have a certain charm though, and if you're looking for a beat-'em-up that has a strategic angle without the blood and guts then it's definitely worth buying.

- Publisher: Renegade
- Developer: Terramarque
- Disks: 2
- Price: £24.99
- Genre: Beat-'em-up
- Hard disk install: No
- Control: Joystick
- Supports: All Amigas with 1Mb+
- Recommended: 6800 upwards



The detail in the backdrops is stunning



Watch this guy – his sword is lethal



The hammer-wielding king shows no mercy – especially towards elves

OPINION 65%

While it is a nice idea having a 'less violent' beat-'em-up by using cute elf characters, it is at times a bit too twee and everything is a bit too nice.

Beat-'em-ups bring out the more aggressive style of playing and when your opponent is a smiling elf it can become rather frustrating. The game redeems itself when you meet the tougher fighters later on and gets the real fighting feel back into it.

More moves would have benefited the game as they are quite limited. All the characters have very similar moves and although this results in a simple control system that is easy to get to grips with, it does become rather repetitive after a while. The special moves also take a fair amount of joystick bashing to get to work. And what can't be forgiven is all the disk accessing. The game is not hard disk installable and unless you have an extra drive you will be constantly plagued with swapping between disks after each fight.

It's not all bad though, far from it in fact. The game does have a lot going in its favour, such as an artificial intelligence system which means you can't just find one successful move and use it throughout the fight because the computer susses out what you are up to and will avoid your hits.

The control system is easy to get the hang of and the coin idea is excellent. When you hit your opponent he releases coins – you can then hit them back at your opponent to cause additional damage.

Two-player mode is also quite fun and you can choose from all of the six fighters available (in a one-player game they only become available when you have earned enough coins). The strategic angle is a nice touch. The country is divided into 36 counties and via the mapscreen you must conquer six counties in a row to win.

AMIGA COMPUTING BRONZE AWARD

But it's up to you whether to go straight ahead and try for the six in a row or build up your cash by defeating the easier opponents and going on to the Bonus Stage.

So, despite its 'cutesy' appearance and limited amount of moves and characters, this is a surprisingly playable and addictive title. The sprites are solid and well animated, the backdrops absolutely superb and the extra features add a novel aspect to it.

Wild Cup

INTRODUCTION

How do you make your new footy game stand out from the billions of other footy games clamouring for your World Cup USA business? Easy! Insert a fantasy theme, weapons and abolish all the rules.

At least you do if you're the cheeky tinkers who gave us Brutal Sports Football. Polish down your swords, load your guns and take to the pitch for a match that would even make Vinny Jones flinch.



And that doesn't mean what you might think

Millenium's latest entry in their Brutal Sports series aims to put the violence back into footy. Daniel Whitehead kicks it in the head with studded boots on.



Well it's more use than an Adidas tracksuit...

- Publisher: Millenium
- Developer: Terramarque
- Disks: 2
- Price: £25.99
- Genre: Sports sim
- Hard disk install: No
- Control system: Joystick
- Supports: All Amigas
- Recommended: 68000 upwards


A splintering tackle sends blood everywhere

GRAPHICS

Good and bad in this department. The progression from Brutal Sports Footy manifests itself most obviously in the isometric viewpoint, which gives the game a much more fleshed-out feel.

There are also improvements in the addition of pictures of whichever player has control of the ball. The more battered they get, the more their portrait bleeds from its nose and mouth.

Icky, tasteless but very handy when you want to finish off a weakened opponent. The violence is nicely handled as well, with showers of blood coming from every collision, and the occasional decapitation from a well-timed flying tackle giving a new meaning to taking a header.

The downside comes when you try and actually control what is going on. The viewpoint counts against the game when you try and carry out anything even remotely involving precision or skill, as the ball is often lost in the midst of the players.

51%



Of course, you needn't even score to win. Just kill the other team!

Soccer

PLAYABILITY

Oops. This is where the game falls down a bit. The marriage between sports game and beat-'em-up is a bit shaky, with neither aspect coming out any the better.

The sport gets in the way of the violence, and the violence gets in the way of the sporting action. Too often the game degenerates into a frantic waggle-fest as you just hit fire repeatedly to duff up the opposition.

Every now and then there's an opening at the goal (usually if the otherwise invincible goalkeeper is clobbered) and you remember that there's a ball involved in this game and hoof it goalwards.

There's just no feeling of control over the action. Every time you score you know it was down to sheer flukiness rather than any premeditated tactics paying off.

The isometric view also causes problems by making it difficult to see where other players are in relation to yourself, so any precise passing is ignored in favour of the "boot it up the field" approach.

There are also some power ups to be collected, usually by accident, and matches that are drawn result in a penalty shoot-out using real guns.

The trouble is that there are so many good ideas and neat touches struggling to peek out from beneath a rather unplayable game, and this gives you a glimpse of just what the game could have been like.

SOUND

Sound is, for the most part, functional. There's a pleasant enough tune that somehow sounds like every other football-related tune you ever heard. The in-game sounds are just your basic kicking noises and some crunches when players thunder into each other.

With the violence aspect I expected some more excruciating sounds to compliment the breaking of bones, but chances are you won't notice the sounds anyway as you'll be too busy scrabbling for the ball.

47%



It could be difficult for Estonia in Group A, Brian...

FLASHBACK

While violent sports games are a pretty obvious idea, there are surprisingly few that spring to mind – unless you include rugby. The most obvious, and probably best, are the Speedball games by the saucy Bitmap Bro's.

Viewed from above, it's a sort of basketball with fists combination. As with Wild Cup, you can collect power-ups to cripple the opposition and then punch your way to their goal before hurling the ball in.

The simplicity works in the games favour and it's easy to get straight in there and start scoring even for a beginner.

Other contenders include Smash TV which was more in a shoot-em-up vein. The original Brutal Sports Football follows very similar lines to Wild Cup, but it looks rather flat and suffers from the same sense of "what is going on?" that marrs its follow up.



Not what you'd call a winning move



The poor old rabbit team are starting to look a bit the worse for wear

OPINION **50%**

It's all a bit disappointing really. The idea is sound and the implementation almost pulls it off, but the clumsy controls reduce the game to a random mess of punching and occasionally making a run for goal.

The most annoying aspect is that there is so obviously a very good game lurking in here, but all you ever get are tantalising glimpses of how good it could be.

For example, the players not under your control are aggravatingly useless. You make a run for goal with another member of your team in tow. Ideally he would sort out the goalie while you score, but what tends to happen is that he stands by while the goalkeeper smacks your head in and the opposing team thieve the ball and leg it.

All in all, a good game that suffers due to it's annoying quirks. Practise might well allow you to get past the obstructive melée of frantic joystick waggling, but the sad truth is that you shouldn't need to practise just to enjoy the game.

With so many other footy-related games out at the moment, there's no need to struggle with this one, which is a pity.

Kick Off 3

Fouled by football? Want to give soccer a sending off? If not read on as Tina Hackett referees the latest contender in the computer football world cup

INTRODUCTION

The Kick Off series set new standards in football gaming as we knew it. Boasting top-quality graphics and superb playability they amazed the games-playing public.

Then Cambridge-based software house, Sensible Software, came along and started off what can only be described as a fierce battle between these soccer legends and their hot new offering, Sensible Soccer. And now, when all the wounds are barely healed, the war is about to start up all over again with both companies intending to bombard the shops, promising even bigger and better games. Kick Off 3 goes into battle.



The excellent practice mode allows you to perfect your skills. Guide the balls through the cones and shoot



The best tactics to suit the country's playing style is pre-selected but can easily be changed

SOUND

Abysmal is one of the more polite words I could use about the sound. The poor excuse for a 'crowd noise' is hardly worth mentioning – unless of course to stress how atrocious and annoying it is. There is no cheering when you make a break with the ball and when you actually score it is met with stony silence.

One crowd chant is used throughout which is pretty much indecipherable and is merely a half-hearted mumble. And as for the necessary sound effects that should convince you that you've given the ball a good wallop, or that you've skidded at full pelt down onto the pitch, well they too are a sorry case.

Enough said, I think. Buy it and play with the volume switch down by all means but then you'd miss the essential atmosphere, the build up of match tension, the euphoric cheer of the crowd as your shot hits the goal...

20%

GRAPHICS

Anco have really developed a good-looking game and with regards to pitch view and sprite size they have come up with a winner. Viewed from a side-on, slightly elevated position, the game is clearly seen with none of the action being missed.

Sprites are in proportion to the ball and the stadium, giving an overall impression of realism. There are some nice animations, such as when a player scores, and the crowd and stadium are very detailed and nicely drawn.

73%



The sprite size works well and actually looks as though you are dribbling the ball



Some players will have higher attributes than others from vision to flair, pace or agility

FLASHBACK

Would you be at all surprised if I mentioned Goal and Sensible Soccer here? No, you probably won't so I'll go ahead and compare Kick Off 3 to these footy greats.

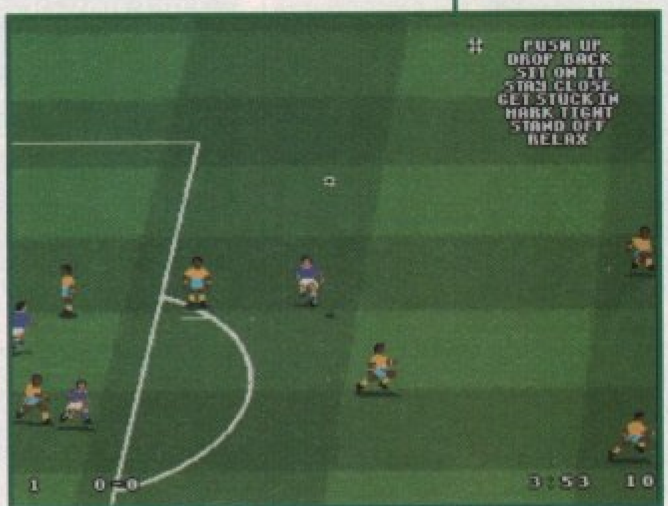
What more can be said about Goal though, it has everything – atmosphere, playability, great graphics and high addiction levels.

Sensible Soccer again has all this and I'm afraid Kick Off 3 is the sweaty sock among this collection – it doesn't conjure the atmosphere, and it certainly isn't as instantly playable or as addictive.

Playability-wise it does kick some of the other recent releases we've seen lately in to touch though, and if you want to go and fork out on a two independent button joystick then you will get a pretty fine footy game with a wealth of options that could teach other footy games a thing or two.



The goalies aren't really that hard to beat



Team talks could be crucial to encourage the right spirit with the players

SIMULATION

Kick Off 3 gives you the choice between a fast arcade kick-about or a more realistic simulation. In this mode you will find all the rules included and every aspect of the real game closely adhered to.

Many moves can be achieved, from the usual headers and tackles to the high kicks and after touch, resulting in a satisfying playing style that is close to the real thing.

All the countries involved have their own playing methods and each one brings its unique national character in to the game. Players also have different attributes.

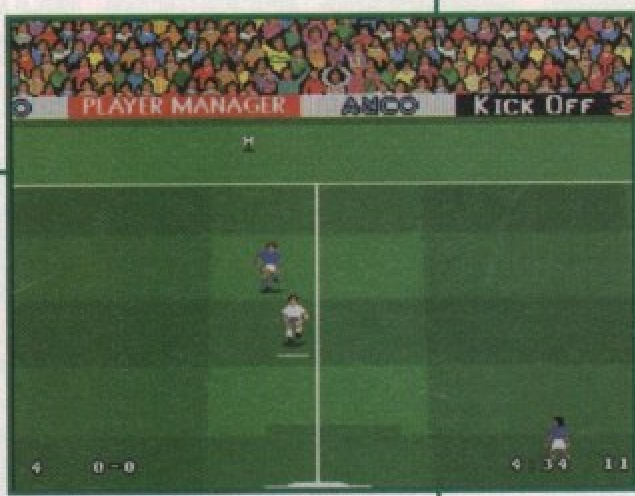
Some may have vision – players who will read the game and do long passes into space – whereas a player with high flair will take the ball towards the opposition half instead of passing it and will also tend to shoot at the goal from distance.

Different levels of difficulty can be chosen so both the expert and novice are catered for.

The ball control setting, for instance, determines how easily you can turn with the ball. At international level you'll need a fair amount of experience to do this.

- Publisher: ANCO
- Developer: In-house
- Disks: 2
- Price: £29.99
- Genre: Sports
- Hard disk install: No
- Control system: Joystick
- Supports: A1200 version
- Recommended: A1200 (AGA only)





The game looks authentic, paying attention to small details such as the crowd



Test your nerve practising the all-important penalties

OPINION 66%

A game of many, many options, Kick Off 3 really is exceptional in this respect. You can change almost anything and unlike some similar titles, these options really do alter the game.

For starters there's a Simulation or Arcade mode, ideal for either the serious followers of soccer or for those wanting a simple kick-about.

There are Game Speed and Ball Control options and a great tactical element is brought in by changing players according to their abilities, deciding formations, and even playing manager by issuing team talks throughout the match. Practice mode comes in very handy for improving your skills and you can even have an overall assessment made of your abilities. Test your nerve in a penalty shoot-out or practice your dribbling around a set of cones and then shoot at the goal.

The many competitions you can take part in will ensure lasting appeal. Play in an international friendly, the World Cup, Anco Cup or Anco League, or test your playing skills in The Challenge.

You can also replay some of your finer moments and see the match facts to accurately keep track of your progress.

This is a more than proficient footy sim but you should bear in mind that a two independent button joystick is essential and if sound effects are high on your list of priorities then it may not be for you.

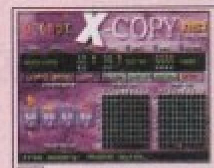
EP SOFTWARE



A Virus killer is an essential purchase in these days where there are hundreds of Amiga viruses. Make sure your software collection is free from all known viruses.

£4.00

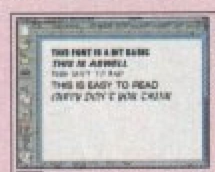
VIP4-2. VIRUS KILLERS



This is the most powerful Amiga disk duplicator available. In fact the authors say that if you can't copy something they'll give you your money back.

Order Now £34.95

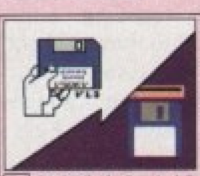
XCP35-1. XCOPY PRO.



A five disk set of over 70 top quality fonts for use with Wordworth 2 or 3. Simply install them and they're ready to use

Only £10.00

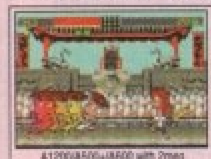
WWF10-5. WORDWORTH FONTS



A selection of tools for degrading your A1200 down to a 500. Very easy to use, but extremely effective way of running old games etc.

Only £4.00

DEG4-2. A1200 DEGRADERS



A1200/A500+/A600 with 2meg

If you're in to beat 'em ups, here's a treat. Fight against numerous opponents in this fast action beat 'em up, features enhanced sound on 2 drive Amigas.

Only £6.00

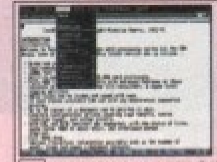
BDK6-3. BODGER KOMBAT



Fifty stunning AGA images in 256 colours. All of which will blow your mind. All run as a slideshow for ease of viewing.

Only £15.00

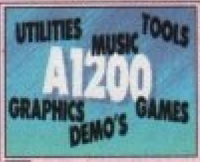
GRL15-10. BATHING BABES



A complete Word processing package. Includes: Spell checker & grammar checker. A very easy to use package.

Only £4.00

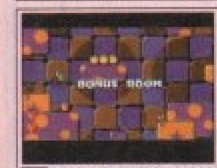
WPR4-1. WORD PROCESSING



A good selection of games, demos, music, graphics and tools for use only on the A1200 or A4000. A great way to instantly build your AGA software collection.

£15.00

AGA15-10. A1200 STUFF



Who needs Sonic or Mario when you can play fantastic games like this on your Amiga. Fast, smooth scrolling platform game. Excellent stuff.

Only £5.00

MSB5-1. MORTON STRIKES BACK



The complete RSI demo maker, featuring: font editor, vector editor, graphic templates, extra music fonts etc. and a complete tutorial.

All for only £15.00

RSM15-5. RSI DEMO MAKER

FREE!!!
FREE BOX OF TEN BLANK DISKS WITH EVERY ORDER OVER £25

Don't forget to ask for them



BFD7-10. TEN PRE-FORMATTED DISKS £6.95

High quality box of ten blank disks, in a choice of pre-formatted or unformatted media. 100% error free guaranteed.

Only £4.95

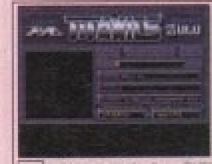
BLK5-10. TEN BLANK DISKS



Now the summer's here, it's time to do the garden, and this is a good reason not to, because you'll be too busy designing it.

Only £3.00

GRN3-1. 3D GARDEN DESIGNER



Features all you need to crunch, archive & decrunch any file or disk. Includes DMS the Disk masher, Powerpacker, LHA etc.

Only £5.00

CRM5-2. CRUNCH MANIA



RDS3-1. RANDOM DOT STEREOGRAM

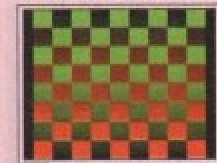
Create your own fascinating Random dot Stereograms, very easy to use. Only £3.00



If you want to be a budding Ian Beale or Floyd then THE GOURMET COOK BOOK is a good way to get started, over 50 recipes included.

Only £3.00

GCB3-1. THE COOK BOOK



A two disk collection of various Scala background textures. Wood, paper, etc. Gives your Scala production a more professional finish.

Only £6.00

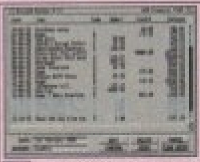
SCA6-2. SCALA TEXTURES



Over 1000 Top Amiga game cheats on five disks. Includes all popular titles like: Monkey Island, Project X etc, etc.

Only £9.00

CHT9-5. 1000 GAME CHEATS



Get your finances in order with this excellent package. Take a closer look at your bank accounts, find out where all your money goes every month.

Only £7.00

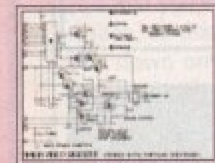
FIN7-3. FINANCE



Double the space available on your hard disk. If you have an 80meg drive this will give you over 150meg of available space. Runs silently in the background.

Only £5.00

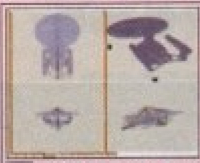
EPU5-2. DISK DOUBLER



Make your own hardware and save £££s. Sound samplers, memory expansions, Bridgeboards are all here. Includes complete diagrams.

Only £3.00

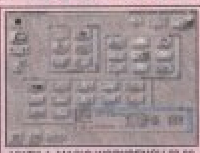
HWP3-1. HARDWARE PROJECTS



Over 70 top quality Imagine objects for use in any version of Imagine. Subjects include: Vehicles, Animals, Star Trek, Dinosaurs, Star Wars and loads more.

Only £15.00

IOD15-10. IMAGINE OBJECTS

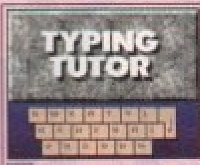


MWB3-1. MAGIC WORKBENCH £3.00

A two disk set of extra backgrounds, Icons etc. for use with Magic Workbench. Requires KS2/3.

Only £5.00

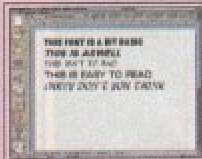
MWE5-2. MAGIC WB EXTRAS



Learning to type can be a difficult task, but not when you get a copy of our classic typing tutors. Includes three games to help you learn to type.

Only £3.00

TYP3-1. TYPING TUTORS



Forty top quality compugraphic fonts for use with WB2/3, Pagestream, Wordworth, D Paint 4 etc, etc.

Only £7.00

PSF7-3. COMPUGRAPHIC FONTS



Hundreds of general knowledge questions. Subjects include: Sport, Films, Music, Science, Geography. Test your knowledge with this excellent Trivia game.

Only £5.00

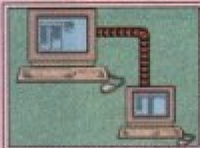
QUZ5-2. QUIZ MASTER



The most professional word search, crossword solver available on the Amiga. Includes a dictionary of over 58,000 words, and you can add your own.

Only £5.00

WFP5-2. WORD FINDER PRO.

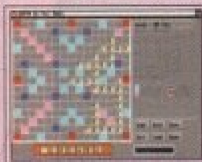


Link up lead (Ami-Ami) only £19.99

Whether you want to link two Amigas together, or 2 PCs or Amiga to PC, then this package will suit you. Easy to install.

Only £8.00

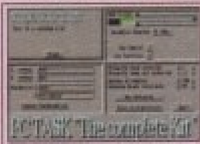
COM8-3. NETWORKING



Four all time classic board games. Scrabble, Cluedo, Snakes and Ladders, and Monopoly. Great fun for all the family.

All for only £10.00

BDG10-4. BOARD GAMES



Works on any Amiga model

Run PCXT software on your Amiga. Very easy to use and supports VGA graphics on a humble A1200. A superb package. Makes use of hard drives etc.

Only £39.95

PCT40-1. PCTASK+BOOT



Includes Documentext viewers such as More, PPmore, Muchmore etc. plus all popular libraries inc. Powerpacker

If you're new to the Amiga, then you may be having problems with missing Libraries on your workbench that are needed to run particular software. Order this now and solve those problems.

£2.00

EFB2-1. ESSENTIAL FOR BEGINNERS



Brilliance 2 is the best AGA paint & animation package available on the Amiga. Supports all available graphics modes. Check latest magazines for reviews.

Only £89.95

BRT90-1. BRILLIANCE 2

All Titles Advertised on these pages should work on any Amiga unless stated

CD³² KEYBOARD
Easy connection to your CD32. Allows you to run all CDPD disks, and all games on LOCK'n'LOAD etc.
ONLY £37.95 + £7.50 Delivery

CD³² LINKUP
Connect your CD32 to your *Amiga* for easy transfer of ALL CD Rom disks. Complete with leads + CD Rom boot software.
CDL35-1. Only £34.95 + £1.00 P&P

ORDER FORM

Name ....
Address ....
....
Tel .... Amiga ....
Payment method ....
Credit card No.......... Exp..........

Order Value

Amount of PD Packs XXX10-5. PACK TITLE Individually priced	QTY	
		= £
Other Items		= £
Goods value		= £
Postage & Packing Please add a total of 50p for P&P in the UK		50p in the UK. = £
Amount enclosed		= £

OVERSEAS ORDERS
Overseas orders are welcome, but please add 25p to each disk ordered, & £1.00 to each Pack ordered, a minimum of 5 disks apply. All Overseas orders are sent by 1st class Air Mail.

COLLECTING DISKS
You are welcome to collect your order, but you are advised to phone it through prior to collection. Office hours: 9.30am-5.30pm Mon-Sat.

ORDERING BY POST
Simply send your order in on an A4 page, listing the numbers you require, the total cost, and your name & address, or if you wish simply mark off the titles you wish to order, fill in your name etc, and send these pages to **EPIC MARKETING**, First Floor Offices, Victoria Centre, 138-139 Victoria Rd, Swindon, Wiltshire, SN1 3BU.

ORDERING BY PHONE
Call any time between 9.30am & 5.30pm Monday to Saturday with your credit card details and the disks you would like to order.

Epic Marketing, First Floor Offices, Victoria Centre, 138-139 Victoria Rd, Swindon, Wilts. SN1 3BU. Tel: 0793 490988

Order hotline: 0793 490988 Fax: 514187



Megaball V3 is most definitely the best ever "Break-out" game available. Superb AGA graphics, music and gameplay make this an all time classic.

Only £3.00

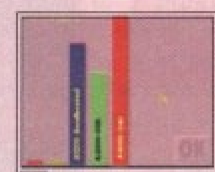
☐ **MGB3-1. MEGABALL AGA**



Inside Engines is a compilation of in depth animation sequences showing you the workings of all the most popular engine types.

Only £9.00

☐ **ENG9-5. INSIDE ENGINES**



The complete system analyser. Test your drives, memory, keyboard, mouse, expansions and all your custom chips etc.

Only £3.00

☐ **ENK3-1. ENGINEER'S KIT**



Thousands of useful tools, demos, games and graphics on each disk. Call for details.

☐ EURONET DEMOS £14.99

600meg of the very latest demos, music and graphics *NEW!*

☐ CDPD 1. £19.99

☐ CDPD 2. £19.99

☐ CDPD 3. £19.99

☐ **CDPD COLLECTIONS**



Over 100 all time classic games including: Breakout, Pacman, Space Invaders, Snakes, loads of puzzle games and more.

Only £10.00

☐ **GG10-4. 101 GAMES**

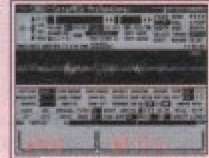


Hundreds of high quality professional clipart images. Subjects include: Transport, People, Computers, Xmas and loads more. A much wider scope.

* TOTAL OF TEN DISKS

Only £13.00

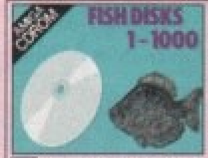
☐ **GFX13-10. PRO CLIPART**



Hundreds of high quality IFF samples, including: drums, guitars, bass, vocals and beats. Perfect for Music X, Med or any tracker clone.

Only £7.00

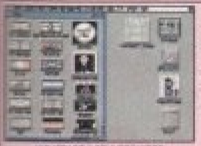
☐ **SAM7-5. IFF SAMPLES**



The Fred Fish collection. Over 4000 utilities included in this set, ranging from wordprocessing to spreadsheets, graphics tools, music and hundreds of other things.

Only £39.95

☐ **FRED FISH CD 1-1000**



World Cup fever is here (possibly) and so are Football Icons. Replace your old drab workbench icons with these snazzy full colour fotball team icons.

Only £3.00

KICKSTART 2 OR 3 REQUIRED

☐ **FBI3-1. FOOTBALL ICONS**



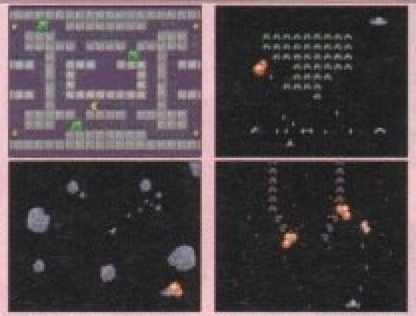
Remeber the good old days of computing? Well now you can run classic Spectrum games on any Amiga with ease. You can even load your games from cassette and save them to disk.

☐ SPG15-7. 100 SPECCY GAMES £15.00

☐ SEI40-4 SPECCY EM + INTERFACE + GAMES £39.95

£5.00

☐ **SPE5-3. SPECCY EMULATOR**



☐ **AAC10-4. ARCADE CLASSICS**

Features 4 all time classics. New & old versions of Pacman, Space Invaders, Asteroids and Galaxians. Remember the good old days for now only £8.00.



1000 all time classic Amiga games. Puzzles, Adventures, RPG, Shoot'em ups, Platformers. Works on the CDTV, CD32 or any other Amiga CD ROM drive.

Only £19.99

* SOME GAMES MAY REQUIRE A KEYBOARD

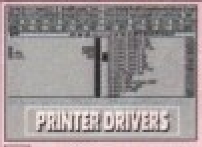
☐ **LOCK 'N' LOAD CD**



A collection of tools for the printer user. Printer drivers, label maker and other useful utilities are included in this great getting started pack.

Only £8.00

☐ **PRT8-4. PRINTER TOOLS**



A selection of printer drivers including all popular printers such as: Hewlett Packard, Star, Panasonic, Epson, IBM, OKI, Seikosha, Postscript etc.

Only £3.00

☐ **DRV3-1. PRINTER DRIVERS**

☐ FOWB WORKBENCH OF YOUR CHOICE INSTALLED WITH DRIVER OF YOUR CHOICE £5.00

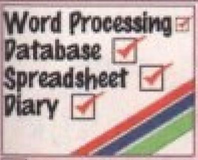


Thousands of archived tools including: patches, Dir tools, music, graphics, AGA tools, workbench tools. It'll take you months to sift through this lot.

Only £19.99

☐ NETWORK CDROM £19.99

☐ **AMINET II CD ROM**



Whether you run a small business or just need to go computerised then this superb easy to use integrated package is what you want.

£7.00

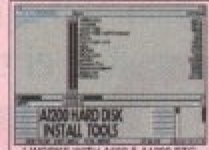
☐ **IFC7-3. LITTLE OFFICE**



Contains a selection of Video titlers, Video wipes & backdrops. Great for creating professional home movies. All you need.

Only £12.00

☐ **VID12-6. VIDEO STUFF**

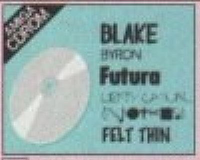


An essential tool for installing workbench on your new hard disk. Easy to use either on the A600 or A1200.

Only £7.00

* WORKS WITH A600 & A1200 ETC.

☐ **AHD7-2. HARD DISK INSTALLER**



Over 2,000 Adobe and compugraphic structured fonts, great for Desktop Publishing. Compatible with Amiga & PC CD Rom. All ready to use on any machine.

£19.99

☐ **PRO. FONTS CD ROM**



This is the most impressive AGA demonstration available. If you want to impress someone, then this is what will do it. Features a brill BJorg soundtrack.

Only £4.00

A1200/A4000 Only

☐ **BTS4-2. BIG TIME SENSUALITY**



If you've just purchased your Amiga you may be a bit boggled how to use it properly. Well this five disk set takes you step by step through every basic thing to know.

£9.00

* Suitable for use on all Amigas

☐ **ABG9-5. BEGINNER'S GUIDE**



Organise your entertainment media with this set of cataloguing tools. Video, CD and disks are all catered for.

Only £5.00

* WORKS WITH A600 & A1200 ETC.

☐ **CTG5-3. CATALOGERS**



Play Poker with some of the most lovely ladies in the world. Includes superb graphics and digitised speech.

Only £12.00

* PLEASE QUOTE "OVER 18" WHEN ORDERING

☐ **DSP12-1. DELUXE STRIP POKER 2**

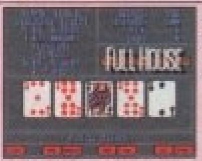


Hundreds of quality textures for use in Imagine. Render your objects in a variety of shades, colours and textures. Compatible with all Amigas.

Only £12.00

* NOT RECOMMENDED FOR BEGINNERS

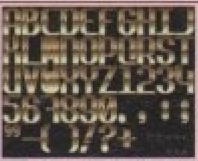
☐ **ITX12-7. IMAGINE TEXTURES**



A collection of Amiga card games including: Poker, Craps, Solitaire etc. Great fun for all the family.

Only £10.00

☐ **CRD10-4. CARD GAMES**



Hundreds of colour clip fonts, for use in any Paint package. All sizes from 8 up to 45, 8 colours up to 32 colours, great for video work or for just making demos.

Only £15.00

☐ **CLF15-8. COLOUR FONTS**

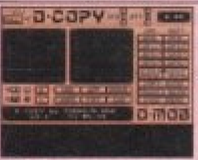


Whether you're a complete beginner at chess or a champion, JI CHESS has something for you. Superb graphics and speech make this a great software title.

Only £4.00

☐ JIC4-1. CHESS & TUTOR 1MEG VERSION

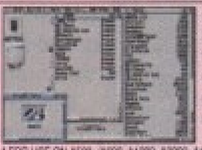
☐ **JIT4-1. CHESS & TUTOR**



A compilation of very powerful disk copiers, make backups of your software collection with ease.

Only £5.00

☐ **CPY5-2. DISK COPIERS**

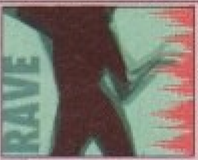


Over 200 Workbench 2 or 3 utilities/tools, including: text editors, virus killers, disk editors, sound & graphic tools and loads more.

* FOR USE ON A500+/A600, A1200, A3000, A4000 ONLY

Only £3.00

☐ **TTU3-1. 203 UTILITIES**



This is the most impressive RAVE demo available on the Amiga, features an amazing soundtrack & wicked visuals, don't miss this.

Only £4.00

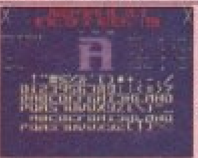
☐ **SBL4-2. NINE FINGERS**



Williams F1 Imagine object. It requires 4 meg but as you can see is Amazing. Requires a version of Imagine to render it.

Only £4.00

☐ **WIO4-1. WILLIAMS F1**



Seventy bitmap fonts for use in almost any package including Deluxe Paint. Also features a fantastic font editor for designing or customising your own fonts.

Only £7.00

☐ **FNT7-3. FONTS & EDITOR**



Klondike the card game features unbelievable 256 colour hi-res graphics. Also available now are four new data disks featuring 4 new card designs.

Only £6.00

☐ KLE8-4. EXTRA CARD SETS 1-4 £8.00

☐ **KLD6-3. KLONDIKE AGA**



An all time classic! Features include: 7 skill levels, full league tables, 3D football ground, managerial ratings, injury problems, promotion & relegation.

Order now only £3.00

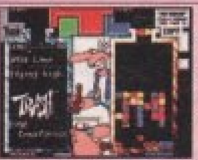
☐ **FBM3-1. FOOTBALL MANAGER**



A collection of great fun educational games for children aged 7+. Maths, spelling, speed, etc. are all included in this excellent compilation.

Only £9.00

☐ **EDU9-4. EDUCATIONAL**



Tetris is the most addictive game in the world, and that's a fact. This is a compilation of five of the best. Best graphics, best sound and best playability.

Only £9.00

☐ **TET9-5. TETRIS MAYHEM**

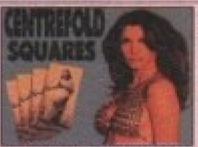


The perfect companion for all small businesses. Three business modules including: Cashflow, Invoicing-Sales ledger, VAT reports and stock control.

Only £79.95

☐ SST60-1. SYSTEM 3 £59.95

☐ **STE80-1. SYSTEM 3 ENHANCED**



Another great puzzle game for adults. A pint of the best, a packet of peanuts and a good game of Centrefold squares. "What a life!"

Only £10.00

* PLEASE QUOTE "OVER 18" WHEN ORDERING

☐ **CFS10-1. CENTREFOLD SQUARES**



Stop other people from accessing your floppy or hard disks, by putting a customised password on your disk. Also contains file encryption tools.

Only £10.00

☐ **PSW10-4. PASSWORD**

Epic Marketing, First Floor Offices, Victoria Centre, 138-139 Victoria Rd, Swindon, Wilts. SN1 3BU. Tel: 0793 490988

Quik The Rabbit

He's speedy, furry and blue (sound familiar?). Daniel Whitehead hunts him down like an animal

INTRODUCTION

So there's this rabbit, see? And as all his woodland friends have suddenly turned into slavering beasts, he's feeling a bit put out. So he stops day-dreaming about the foxy she-rabbit from the Cadbury's Caramel advert and hops off to dispense the long ear of the law to his violent ex-friends. It's a platform game, obviously.



Quik looks on in disgust as Secret Squirrel skulks below



Through yonder door lies the clock you must collect to finish the level



Reach the top of the level and avoid the eagle's groping claws



This bizarre young lass is the game's only concession to its French origins



Quake before my games prowess as I discover yet another secret room

SOUND

As befits a cute rabbit game, the tune is all bouncy and cheery. It probably wouldn't sound out of place on a kids' TV programme, like those quite terrifying Tiny Tots creations.

However, as is the case with pretty much every game tune ever, it has the ability to irritate you to the point of violence after about 10 minutes, so thank goodness for the chance to prod 'M' and switch it off.

Unfortunately, this shows up how sparse the sound is. A few FX for the enemies would have added greatly to the grooviness of the game. A squawk from the birds or a howl from the coyotes would be most pleasant. Inoffensive, but lacking real bite.

68%

GRAPHICS

There are two sorts of platform games, the normal sort and the cute sort. With a blue rabbit as its main character and various other furry animals as baddies, guess which sort Quik is. Yep, it's a cute-o-rama. And it looks really rather pleasant.

The scrolling is smooth enough and the backgrounds and platforms are clearly defined and a pleasure to jump on. The best graphical aspect of Quik is the great variety of enemy sprites, all suited to their respective zones, and each animated with individuality and flair.

It's also one of those games where bonus rooms and secret routes are tucked away but easily found. You know the sort of thing – conspicuos walls just begging to be jumped through. Some you'll find by accident and others you can unearth by using gamesplayer's intuition.

All in all it looks good and solid. All the platform requirements are there and it handles like a dream.

81%

GAMEPLAY

Make your way from one end of the level to the other, jumping on plat...stop me if you've heard this before won't you? To be fair though, despite it's generic appearance Quik is a very playable little game.

He can spin into enemies to kill them in a quite hedgehog-tastic kinda way, and then collect whatever power-up is left behind. Being a rabbit, Quik requires constant carrot and water refills to prevent a trip to bunny heaven.

You can also collect hearts to keep your energy up and potions to enhance his natural bunny skills (no, not those rabbit skills). The potions come in two flavours, red and green, and allow him to jump extra high or to zoom along at thunder-like speeds.

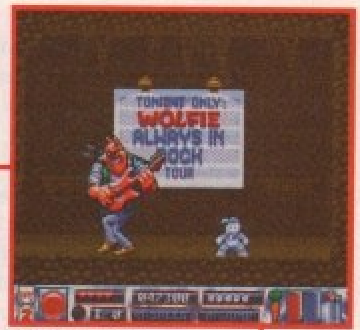
While under the influence of the super speed beverage, our hero is impervious to damage from enemies but can easily lose his power by crashing into a wall.

At the start of each level you'll be told what you must do. Some levels simply require a speedy exit, whereas others demand that you find a clock before making an exit.

Clocks can be found through spooky doors that take Quik back in time to a sub-game where you must clamber to the top of a themed screen (prehistoric, medieval etc) platform by platform to claim the clock. The only trouble is that there are rolling boulders and a fiendish bird that keeps dragging him back down the screen.

Trampolines, secret passages and ladders are all present and correct to assist him in getting to the sub-game, and at the end of each zone there's a labyrinth section in Quik's burrow where you must first locate and then destroy an end-of-level baddie.

Three similar, but refreshing gamestyles, all wrapped up in a playable chocolatey coating then.



Work your way through the labyrinth to meet the end-of-level baddie



The first big baddie you'll meet is this rather tragic rock-loving wolf

Thunder

> The rabbit has a charming face
> It's private life is a disgrace
> I really dare not name to you
> the awful things that rabbits do
>
> *'The Rabbit', 1925*

- Publisher: Titus
- Developer: In house
- Disks: 3
- Price:
- Genre: Platform
- Hard disk install: No
- Control system: Joystick
- Supports: All Amigas
- Recommended: 68000 upwards



The third level takes place in the ocean, and Quik displays his ability to hold his breath for ever

ADDITIONAL INFO

Quik may very well be a speedy little chap but by far the coolest rabbit ever was Bugs Bunny, created by Bob Clampett in 1938 for the cartoon "Porky's Hare Hunt".

He was not, however, very funny until Tex Avery came along and transformed him into the epitome of wisecracking, sarcastic Brooklyn attitude.

By 1962 he'd appeared in a staggering 159 cartoons and received an Oscar for "Knighty Knight Bugs". His characteristic New York drawl was provided by Mel Blanc, who sadly died recently. Mel was also responsible for pretty much every cartoon voice ever, as well as Twiki the robot from Buck Rogers. A veritable star.

Classic Bugs Bunny moments include his frequent cross-dressing (thus proving himself to be a rabbit in touch with his feminine side), his immortal routines with Elmer Fudd and Daffy Duck (which always resulted in Daffy's beak being blown off by Elmer) and one brilliant cartoon where he goes head to head with Wile E. Coyote.

With Bugs you always know that he's going to outwit everybody, and as such he remains a super-cool, suave sex symbol with more star quality in his teeth than all of Disney's sickly efforts put together. Bugs, we salute you.

OPINION 80%

Casting aside all previous platform games, Quik is really a perfectly funky little game. Admittedly, my first reaction to a platform game about rabbits was not printable in a family publication, but I was won over by the sheer profesionalism of it all. The difficulty level is spot on, so with just enough effort you can get through the first three or four levels. Probably more suited to younger players, due to it's simplicity and cuddly approach, but despite every aspect of it screaming "cliché" it comes across as a very fun game.

It even stands up well alongside the competition. Highly recommended, much to my surprise.

Over the years Sierra have built up a reputation as the software house famous for its adventure games. Leisure Suit Larry, the Space Quest and Police Quest series of games, and Willy Beamish; the names of great Sierra-produced adventures just roll off the tongue.

Sierra haven't had an adventure on the Amiga for a while now, but cue clap of thunder and bolt of lightning because they're back! King's Quest 6 is here and I, for one, have been drooling over it ever since I saw some early screen-shots.

INTRODUCTION

The tale of Princes, Princesses, Kings, witches and dragons is being spun out once again. The King's Quest series of games have all been very much like a set of fairy-tales and I guess that's why they're so popular.

In these times where games must contain violence or aliens or both to succeed, King's Quest makes a nice refreshing change.



A shot from the brilliant-rendered 3D introduction and the Prince has taken to the seven seas to find his lost Princess

Sierra are back and clutched in their mitts is the sixth instalment of their fairy-tale adventure. Come with Prince Jonathan Maddock as he takes trip to the Land of the Green Isles to find his Princess.



The inventory is basic and very easy to use and can be accessed from the menu bar at the top of the screen



Prince Alex enters the Realm of the Dead to try and gain an audience with the Prince of Darkness

King's

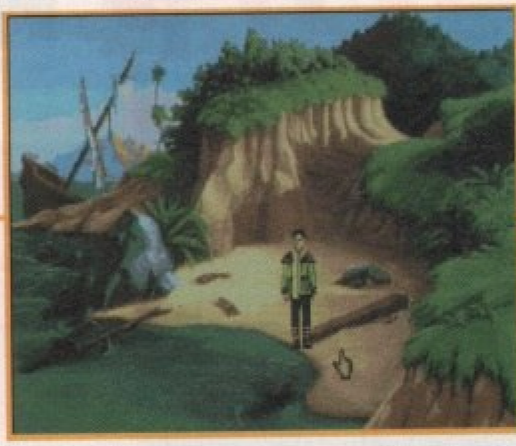
STORYLINE

Once upon a time there was a prince called Alexander who lived in a kingdom in Daventry. The Prince was very unhappy because he had lost Cassima, the girl of his dreams. While moping around the castle, Alexander experienced something very strange – his mirror began to speak to him.

Inside the mirror was Cassima who had, apparently, got lost in the Land of the Green Isles. Alexander did not know where this land was, but being rather clever noticed a set of stars in the mirror. By using his superb astronomical navigating skills he could now find where Cassima was.

Jumping onto his ship, the Prince and his crew set off for a journey over the seven seas and beyond. When they finally spotted land, disaster struck!

The seas began to turn violent and a major storm broke out. When Alexander next opened his eyes he found himself lying on a beach, with bits of ship strewn about everywhere and without his crew. This is where the "real" adventure starts, as you take control of the Prince and must complete his quest of finding his lost love.



The start of the King's Quest adventure and Prince Alex finds himself all washed up on the beach



Just look at the quality of those graphics! Just one of the many screens in King's Quest 6 that'll make your eyes drop out... probably

GRAPHICS

Sierra were planning to do a 256-colour version of King's Quest 6, but they were so pleased with what the 32-colour version looked like that they shelved the idea.

I'm in agreement with Sierra's decision because the graphics look absolutely gorgeous and the 256-colour version might have slowed the game right down.



The introduction to the game is rendered in 3D and features some excellent morphing techniques. The sprites, which range from guard-dogs and minotaurs right down to the devil himself, are well-drawn and very well animated.

The icon bar at the top of the screen is very basic, but helps the game flow along and makes it easy to understand for first-time adventure gamers.

The only quibble I have is that some of the objects are just too small for the eye to see and you quite often find yourself walking past them.

The backgrounds in King's Quest 6 are almost too good! They set the atmosphere perfectly and you could almost believe you are walking around in a fairy-tale.

Sierra's adventure, graphics-wise, is on a par with Monkey Island 2 and The Fate of Atlantis. You can't get a higher recommendation than that!

85%

Quest 6

FLASHBACK

You'd obviously have to compare King's Quest 6 to adventures like Monkey Island, Simon the Sorceror and Beneath a Steel Sky.

All these games contain some high-quality graphics and have an almost unrivalled amount of playability. King's Quest 6 is as good as just about every other adventure I have ever seen.

This is the sixth King's Quest adventure and although it is undoubtedly the best, I'd also suggest you try and get your hands on a copy of some of the previous ones.

They don't quite match King's Quest 6 in the graphics department, but the playability and addiction is still there in abundance.



Walking into the Minotaurs and lair and insulting his mother isn't perhaps the brightest idea you've ever had

SOUND

What surprised me the most about King's Quest is its brilliant little "olde" medieval tune that plays while you play. More often than not, adventure games suffer because of their abysmal tunes that play throughout your quest and have you reaching for the volume switch on your monitor.

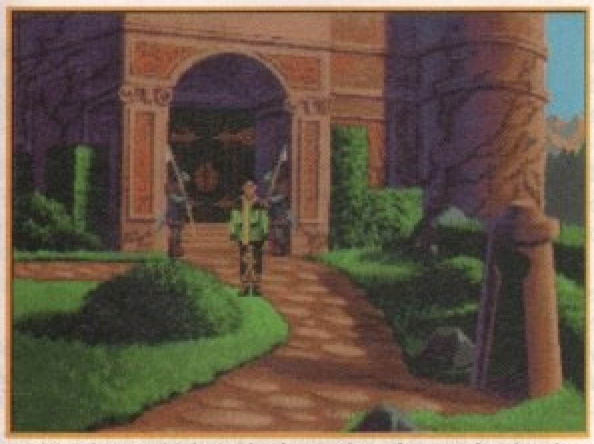
There are a number of sound effects within the adventure and even though they're fairly sparse, the quality of them is worth shouting about. If you could only take a listen to the waves lapping onto the beach on the very first screen, you'd know just how good they are.

Sound-wise, I can't really fault King's Quest 6 because what's in there is adequate enough to please the average gamer.

70%



Hubble, bubble, toil and trouble! Just one example of the superb static screens to be found in Sierra's adventure



At the palace and Prince Alex bumps into the guards. Give them a bowl of Winalot and you'll probably be able to waltz past them

- Publisher: Sierra
- Developer: In-house
- Disks: 10
- Price: £34.99
- Genre: Graphic Adventure
- Hard disk Install: Yes
- Control System: Mouse
- Supports: A500/A600/A1200
- Recommended: 68000

OPINION 86%

Adventure fans will be delighted that Sierra have finally decided to release the sixth adventure in the King's Quest series onto the Amiga.

After such a long time away from Commodore's machine Sierra might have been weary of going back to it, but they needn't have worried because, hopefully, King's Quest 6 should get the recognition it deserves from the general public.

The game comes on 10 disks, so you'd think that a hard drive is pretty much an essential piece of kit. Well it is, but for those non-hard drive owners the disk swapping is kept to an absolute minimum and for this little factor I applaud Sierra.

As far as adventure games go, they don't get much better than this. With its brilliant graphics, a fairy-tale of a plot, superb playability and a level of addiction that will keep you coming back for more and more, King's Quest 6 is an adventure that should have a place in everyone's games collection.

Buy it or you'll regret it, maybe not today...

ADDITION INFO

There have been a lot of famous "Kings" over the years. I'm not talking about monarchy, but here are my two favourites.

BB King is a US blues guitarist, singer and songwriter and was one of the most influential electric-guitar players of the 1960's. His albums include Blues is King (1967), Lucille Talks Back (1975) and Blues 'n' Jazz (1983).

Martin Luther King Jr was a US civil-rights campaigner, black leader and Baptist minister. He was one of the organisers of a protest in 1963 where 200,000 people marched to Washington DC to demand racial equality.

An advocate of non-violence, he was awarded the Nobel Peace Prize in 1964. King was assassinated four years later by James Earl Ray in Memphis, Tennessee.



Among the many attractions in this particular Theme Park is a superb haunted house which looks as though it's been robbed out of a Scooby Doo episode

Theme



system preview



When queues start to form you must do something to keep the agitated crowd of visitors happy. Why not dress a man up in a chicken suit, it always cheers me up!



Grab your candy floss, win a goldfish and come and join Jonathan Maddock as he rides the roller-coaster that is Theme Park, Bullfrog's forthcoming and eagerly-awaited business simulator

Looking back at Bullfrog's softography, all I can see are high-quality pieces of software. Games like the Populous series, Powermonger and more recently Syndicate, have all been tremendous successes, but coming your way very soon is perhaps Bullfrog's finest creation yet.

Along with Ocean's TFX and Inferno, Theme Park is being tipped, by those in the know, for the game of the year award. Who knows, perhaps if there was one Bullfrog could even walk away with a game of the decade award! OK, I could be blowing Bullfrog's trumpet too soon, but I have high hopes for Theme Park.

HYPE

It could just be a case of good 'ol fashioned computer industry hype that's making everyone go Theme Park crazy. I cite Street Fighter 2 as one example which had an advertising campaign that was better than the actual product.

Bullfrog haven't advertised Theme Park though, so why is it so eagerly awaited? The answer is simple. Word of mouth. The only game on everyone's lips within the games industry is Theme Park.

Take a look at Bullfrog's first software sensation, Populous. An original and addictive title that arrived amongst a sea of mediocre shoot-'em-ups and platformers. It completely changed the way games were perceived by the people who bought them and more importantly by the people who created them.

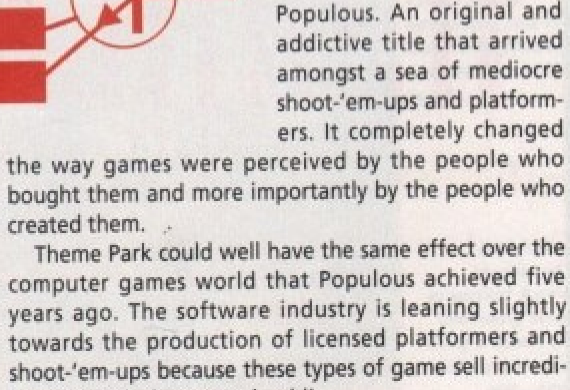
Theme Park could well have the same effect over the computer games world that Populous achieved five years ago. The software industry is leaning slightly towards the production of licensed platformers and shoot-'em-ups because these types of game sell incredibly well with the general public.

I know it is hard to come up with ideas for original products because everything seems to have been done before, but it's still no excuse. It's this originality that will, hopefully, turn Theme Park into a raging success story.

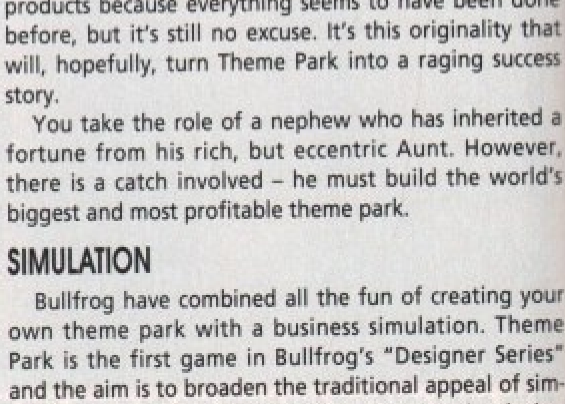
You take the role of a nephew who has inherited a fortune from his rich, but eccentric Aunt. However, there is a catch involved – he must build the world's biggest and most profitable theme park.

SIMULATION

Bullfrog have combined all the fun of creating your own theme park with a business simulation. Theme Park is the first game in Bullfrog's "Designer Series" and the aim is to broaden the traditional appeal of simulation programs by combining accurate simulation



The queues are getting bigger and it's probably all down to your all-new space shuttle ride. A firm fave with the kids!



One of the rides that's user-definable is the roller-coaster. That double-loop is sure to upset a few stomachs



Park

technology with gaming elements.

Top dog at Bullfrog, Peter Molyneux, explains why Theme Park is the beginning of a new era in gaming "While the Designer Series has its roots in techniques refined and honed over our previous releases, the business simulation side is a new direction for Bullfrog.

"We are confident that it is better than anything comparable currently on the market, so we intend to use it as a basis for a series of programs."

Your theme park must compete against 40 other parks and as your park becomes more profitable, these competitors will attempt to buy shares in the park and try to take it over, thus finishing your career.

Just to give you a brief example of how in-depth Theme Park is, not only do you have to decide on



The Chicken man "entertains" the kids while they wait to go up and down on the plane-ride

entrance fees and salaries, but you have to determine things such as how much salt to put on the chips in the chip shop.

There is a reason for all this seasoning malarky because the more salt you put on the thirstier the visitors will become, therefore they will start to buy more of your cola.

Theme Park is a highly original product and for me that counts for a lot in today's current games climate. It's already received an abundance of high review scores from the PC games magazines and I'm in no doubt that it'll achieve the same kind of success on the Amiga. Theme Park will arrive in this office next month and already I've got a smile on my face.

Park life

There are a couple of different ways to play Theme Park. The first, Sandbox, is the most basic. This involves the creation of a park and all you have to do is make sure the visitors are happy and safe.

For those who fancy a bit more of a challenge there is the Business Simulation option. This full-blown business simulator challenges you to not only build a park, but run it as a successful business, incorporating marketing, forging contracts and negotiating staff wages.

There are 32 purpose-built rides to choose from, and six user-definable rides that include race car and helter-skelter rides. You can add corkscrews, loop-the-loops and decide on the speed of the rides. Each ride will have its own "wow" factor and the visitor's reactions will give you a clear idea of how successful your rides are.

Positioning a chip shop too close to a ride that is too fast could end up with visitors regurgitating their last meal, or even being thrown off the ride.

If incidents like the aforementioned one continue then the park's reputation will suffer and it'll start attracting hordes of thugs. These vicious louts will beat up the visitors and vandalise the rides. However, to combat this menace, security guards can be employed to evict any unwanted visitors.

As well as security, you can hire maintenance men to repair the rides, handymen to pick up litter and entertainers who can be dressed in a variety of costumes to keep the queues happy and contented.

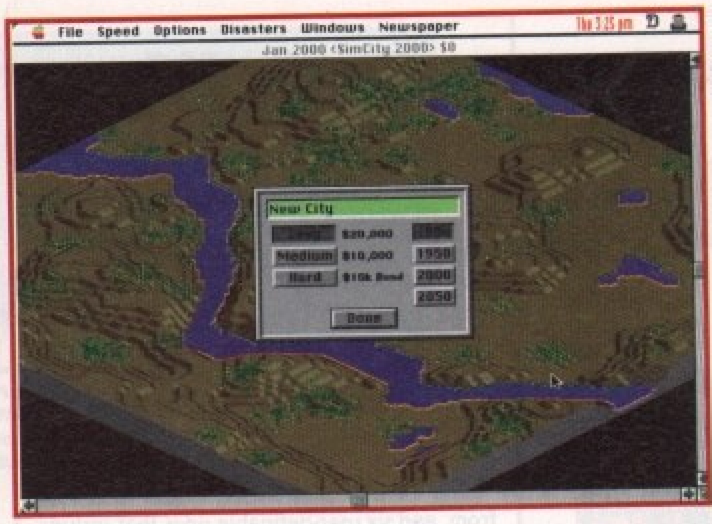
I guess this is one of Theme Park's biggest attractions. There is no blood, no evil aliens from the planet Zarkion, no platform jumping cutesy creatures – there is only the job in hand of keeping your visitors merry.



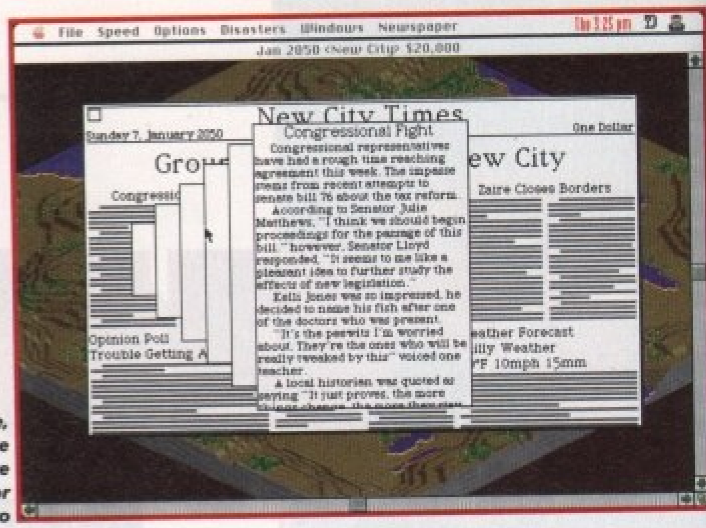
One of the essential sections of your park is the area where all the food emporiums are situated



Oh no, disaster strikes! The sun has gone away and so have your Theme Park visitors



The terrain on to which you must build your new city



The press are, allegedly, the people's voice for you as mayor to listen to

system preview

Sim City



Fancy your chances at playing mayor? Do a good job and they erect a statue to you, cook the books and you'll end up in a car-park scandal. Simon Clays becomes Derek Hatton for the day

Town planning, who'd do it? At school once we had a guy who studied with the single intention of becoming one of those elite fabrication gurus.

The excitement, apparently, lay in the planner's ability to create a Narnia in housing form as opposed to constructing concrete riots in a tenement carbuncle.

It was never established what happened to this acquaintance of mine, but the last thing ever to be heard of him was that he'd met a girl who had just given birth to his third child in as many years. All of which were unplanned – the irony, huh?

Well, very soon all you budding town planners need not go through this physically demanding and financially draining practise to establish your ability as a town planner and budding mayor.

In fact, if you are on this self-destructive trail stop now, because Maxis, the company who have brought you every other conceivable SIM title, are returning to the Amiga as a games platform. Their latest foray into the world of simulating every day life is Sim City 2000.

While there's little information available on the Amiga conversion, you only have to take two facts into consideration. One, a back catalogue of simulated realities that no one can better – Sim City, Sim Life and Sim Earth to name but three.

Secondly, the Apple Macintosh version of Sim City 2000 is currently burning into the pockets of employers far and wide, as addicted workers turn off their spreadsheets and turn their attention to planning that condo.

Sim City 2000 begins by asking you a time zone in which to commence. You can place yourself at the turn of the 20th century or zip ahead to more futuristic zones, post 2000AD.

Establishing the time period will automatically determine your first decision, power. Every city, whatever time it might have been born into, needs a source of power. The Amiga version gives you limited choices at the turn of the 1900's, like oil and coal fossil-powered generators. But, playing in future times allows the luxury of more environmentally friendly forms of power. For example, your cities could benefit from wind, wave or hydro-electric power. On the other hand you might opt for the highly risky nuclear energy – whatever your preference the choice will be yours.

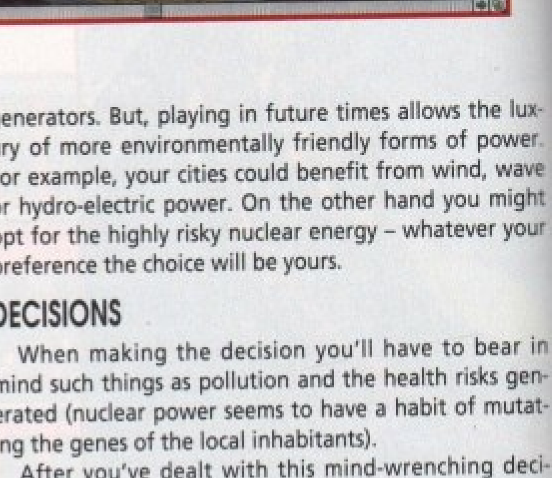
DECISIONS

When making the decision you'll have to bear in mind such things as pollution and the health risks generated (nuclear power seems to have a habit of mutating the genes of the local inhabitants).

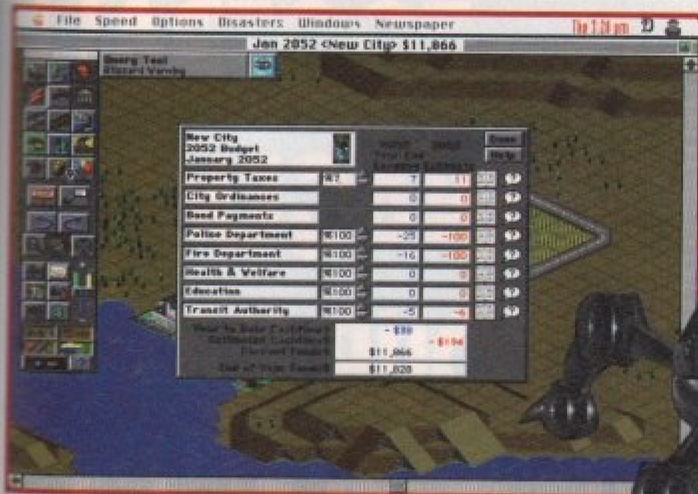
After you've dealt with this mind-wrenching decision, you can move onto the hand-rubbing business of building your city.

Before you commence building, it'll probably be a good idea to have a talk to the different departments under your control. You'll have to set budgets for fire, police, education, transport and other council-funded departments. Clicking on icons allows you to interact with the different departments and even ask advice from them.

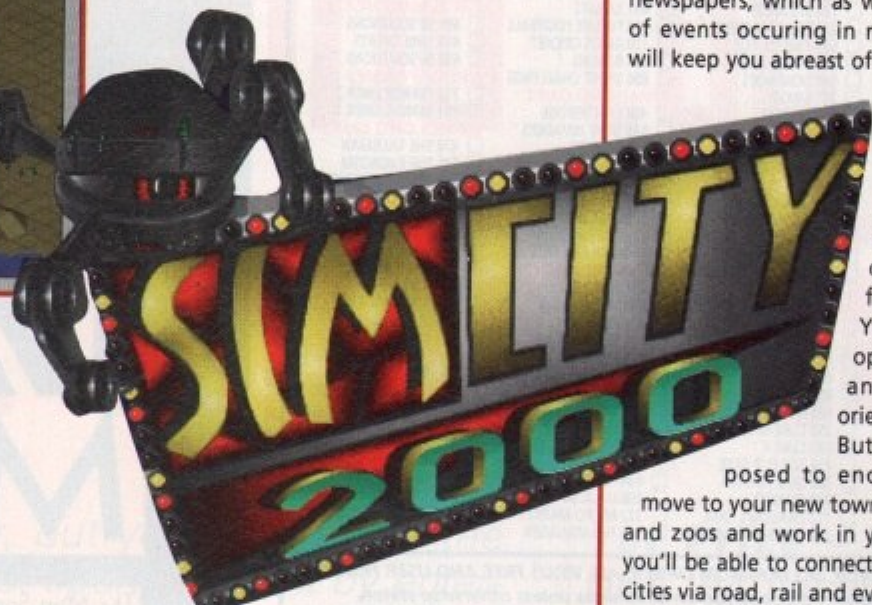
After you've made those important rate capping, tax



The beginning of your new metropolis



You'll need a good head for figures to balance the budget every year



increasing decisions you'll be set to send the bulldozers in. Some of the first operations you'll j2
perform are to make sure your would-be city has an ample water and electricity supply.

As you build different industrial complexes and housing estates, each has to be connected to your main grid – failure to do so will mean that little will be built.

As well as ensuring that power reaches your lucky populace, you'll need to ensure that a road or rail system is in effect so that your population can move to work and back (rat race syndrome reaches computer games).

As you've probably gathered, Sim City 2000 is going to capture just about every reality conceivable to city life. But, it will begin to speculate about society once you proceed past the year 2000.

The game should then start featuring massive city blocks which house thousands and include their own environment and feature waterfalls and forests.

Also included should be the disaster option. This will give you an option of including natural and man-made disasters into the equation. These could vary as widely as floods and tornados, through to plane crashes and alien monsters attacking your city.

Viewed isometrically with the illusion of the player looking from quite a height, the Amiga versions should differ very little to their PC or Macintosh counterparts. The graphics on the latter machines were small but incredibly sharp and accurate, with many animated sections.

EFFECTS

For example, trains should trundle towards their destinations and the cars will swarm up and down the highways like many ants.

The games control is entirely mouse driven with the user clicking on and off icons and menu bars. This should make play easy to manipulate and quick to respond. It seems from other versions that have been released that Sim City is shaping up to be a massive hit with Amiga owners. CD32 owners could well be in store for even dizzier heights if the conversion features the footage that the CD-ROM version includes.

I, for one, am looking forward to creating sprawling condominiums of the future and wait with industrial gloves and builders jeans sliding down my rear quarters for its imminent release.

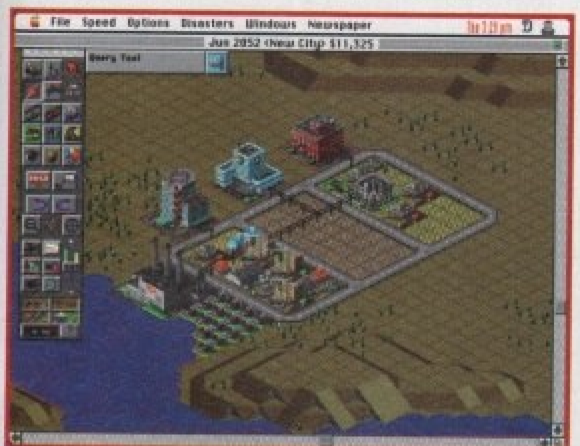
Happy heads

One of your tasks is to keep your populace smiling. Their feelings are reflected through newspapers, which as well as informing you of events occuring in neighbouring towns, will keep you abreast of feelings in your own metropolis.

To keep a grin firmly in place you'll be able to build parks and small wooded areas of land to create a feeling of space. You'll also have an option on parks, zoos and other stadium-orientated pastimes.

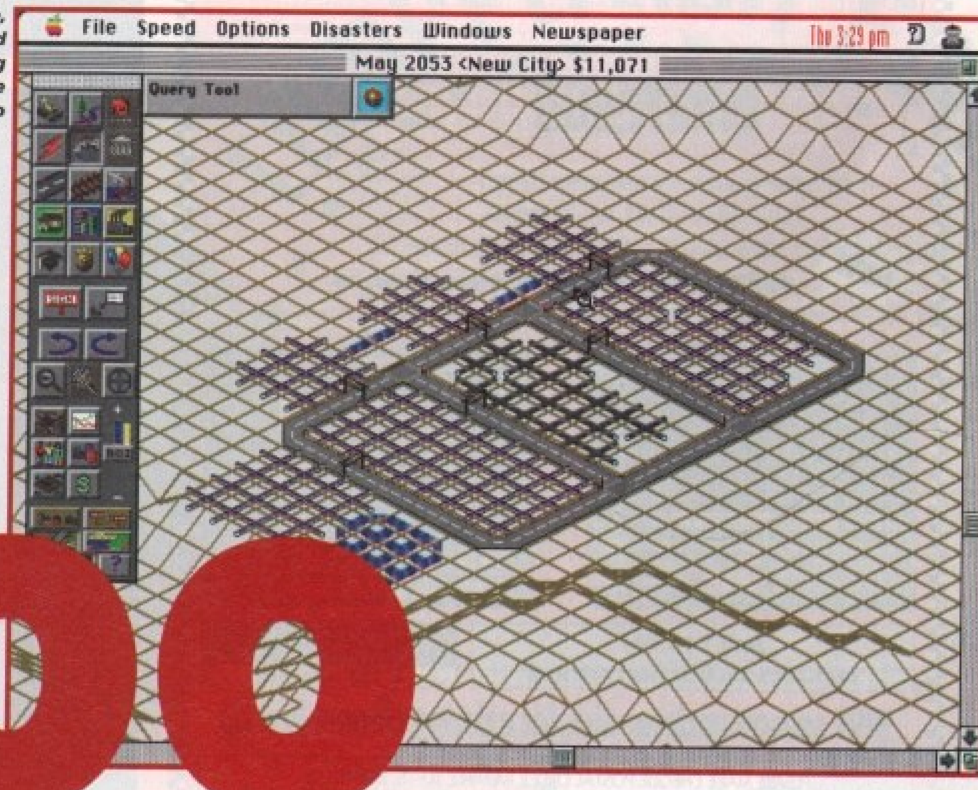
But, how are you supposed to encourage people to move to your new town to play in the parks and zoos and work in your factories? Well, you'll be able to connect your city with other cities via road, rail and eventually via the air.

Once your population starts to boom and your central business districts begin to take off, you'll have to start injecting money into educational institutions such as colleges, museums and libraries.



Using the zoom facility you'll be able to make a closer inspection

Meanwhile, underground the plumbing needs to be attended to



2000

FREE FREE — UNDERGROUND PD — FREE FREE

GAMES CHEATS 1.4 EMULATOR LIBRARY DISK POST & PACK

ON ALL NEW ORDERS

PLATFORM GAMES
- 589 QUACKERS
- 556 CLAWS THE CAT
- 591 BEETLE
- 273 KELLOGG EXPRESS
- 368 BALDY
- 367 WIBBLE-W-GIDDY
- 741 GIDDY 2
- 538 SMIDGE
- 346 FRUIT SALAD
- 352 WONDERLAND
- 715 SUPER BLUE KID
- 652 BAT DOG
- 188 CRAZY SUE 2

TETRIS COLUMNS
- 390 DIZZY DIAMOND
- 472 GAME BOY TETRIS
- 626 MEGA BLOX
- 611 HOT BLOX
- 597 TETRIS PRO.
- 684 QUADRIX
- 107 TWINTRIS
- 294 KLACKTRIS
- 373 CLI-TRIS
- 657 Z.N.Y.X.
- 293 DR. MARIO
- 617 NUMTRIS

ARCADE GAMES
- 590 METAL MOTION
- 429 ZOMBIES
- 547 UGGO PANG
- 706 OBLITERATOR
- 067 L.C.D. DREAMS
- 449 ELEVATOR 2
- 117 HELL ZONE
- 737 WIPE OUT
- 725 MICRO BATTLE
- 406 SPACE RESCUE
- 685 DOCTOR WHO
- 398 MATCHSTICK MEN
- 659 SCORCH TANX
- 332 SUB-SEALANCE

DRIVING GAMES
- 682 MOOSE DRIVE
- 469 ROAD TO HELL
- 428 SKID MARKS
- 422 FORMULA MONACO
- 282 TRACK RECORD
- 735 AUTOMOBILES
- 333 BATTLE CARS 2
- 613 HIGH OCTANE 2

PUB GAMES
- 560 WORLD DARTS
- 734 BILLIARDS
- 222 FRUIT MACHINE
- 598 PINBALL FLIP
- 552 POKER DICE
- 549 DOMINOES
- 261 BINGO
- 551 RUMMY
- 010 POKER ARCADE
- 375 SOLITAIRE
- 720 PONTOON

PACMAN GAMES
- 656 WACK MAN
- 713 MOUTH MAN
- 252 YUM YUM
- 230 SUPER PACMAN
- 397 DELUXE PACMAN
- 102 LADY BUG

BRAIN GAMES
- 726 PENGO 2
- 119 DRAGON TILES
- 317 LEXESS 2
- 452 CLIFF HANGER
- 602 EXIT 13
- 323 O.X.Y.D.
- 250 CUBE-U-LOUS
- 033 CUBE 4
- 716 TOP POP QUIZ
- 309 QUIZ MASTER
- 289 QUINGO
- 112 DRAGON'S CAVE
- 232 WOTS-ITS-NAME

BOARD GAMES
- 032 MONOPOLY
- 247 CHESS
- 548 BACKGAMMON
- 296 RISK
- 530 OTHELLO
- 524 EXCELLENT ATOM
- 229 SNAKE-LADDER
- 631 SCRABBLE

SPORTS GAMES
- 630 TEN PIN BOWLING
- 492 KARATE
- 104 FUTURE FOOTBALL
- 120 AMOS CRICKET
- 636 BOXING
- 686 SPORT CHALLENGE

INVADER CLONES
- 498 LAST REFUGE
- 596 GORF INVADERS
- 122 INTACTS
- 031 OBLIVION
- 343 CYBERNETICS
- 701 GALAGA DELUXE
- 679 STARIANS
- 717 NOSTALGIUM
- 546 CAFFEINE FREE

PONG BREAKOUT
- 003 MEGABALL 1
- 459 MEGABALL 2
- 421 REBOUND
- 007 BATTLE PONG
- 733 SICKBALL 2
- 709 WAYNE'S WORLD

MANAGER GAMES
- 321 AIRPORT
- 404 THE METRO
- 593 SPEEDWAY CUP
- 443 SLAMBALL
- 694 FORMULA ONE
- 668 U.S.A. 94
- 322 MICRO MARKET
- 310 THE MANAGER

A1200 ONLY GAMES
- 503 TETRIS (1 DISK)
- 736 TETRIS-D (1 DISK)
- 696 TO DEATH (1 DISK)
- 662 MADFIGHT (1 DISK)
- 502 GNUCHESS (1 DISK)
- 512 KLONDIKE (3 DISKS)
- 505 INVADERS (2 DISKS)
- 559 MEGABALL (1 DISK)
- 622 DYNATEC (2 DISKS)
- 747 ZOMBIE 2 (1 DISK)

THE GAME CHEATS
- 681 30 SOLUTIONS
- 418 1000 CHEATS
- 699 50 SOLUTIONS

OVER 18 GAMES
- 712 TERROR LINER 2
- 101 TERROR LINER 1

GAMES ON 2 DISKS
- 478 THE TALISMAN
- 545 THE EXORCISM
- 456 MR MEN OLYMPICS
- 116 STAR TRECK
- 711 WALLY WORLD
- 695 THE ANT WARS
- 366 GOLF 18 HOLE
- 710 THE PYRAMID
- 500 SUPER GALAXO
- 297 NEIGHBOURS
- 395 STAR BASE 13
- 719 C64 EMULATOR

CLASSIC GAMES
- 692 SPACE INVADERS
- 693 MISSILE COMMAND
- 011 ASTEROIDS

ADVENTURE GAMES
- 703 THRALL BOUND
- 040 CATACOMBS
- 482 BLACK DAWN
- 471 STUBB CITY
- 043 THE SURVIVOR
- 041 GHOST SHIP

DISKS COST £1.25 EACH, NO MINIMUM ORDER, ALL VIRUS FREE AND USER FRIENDLY
All Games are on 1 disk and run on all Amigas unless otherwise stated.
PICK AN EXTRA DISK FOR FREE WITH EVERY EIGHT DISKS YOU PURCHASE

UNDERGROUND P.D., 54 CARMANIA CLOSE, SHOEBURYNESS, ESSEX SS3 9YZ. Tel: 0702 295887

Name: .... Telephone: ....

Address ....

.... Postcode: ....

AMIVISION SOFTWARE present

FORMULA ONE CHALLENGE v4

An incredibly addictive and detailed formula one simulation for 1-4 players.

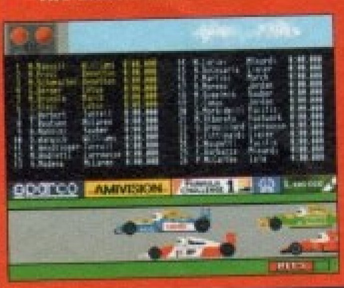
Watch the races as they unfold with three levels of highlights. Crashes, spins, pile ups, car failures, stop/go penalties, weather changes, fastest & record laps, make pitstops. Four independent levels of difficulty. Accurate and detailed graphics of the teams, circuits etc.

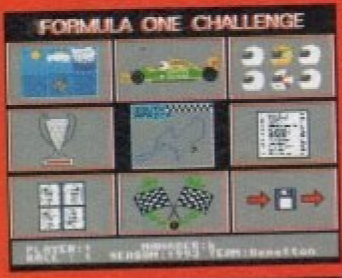
15 teams, 2 cars per team, 50 drivers with varying skills, complete engine & tyre contracts. Choose tyre compounds, tune your engines, change wing settings, even train your pit crew!

Qualifying, 16 accurate championship circuits, news section, realistic sound fx, load/save games, weather forecasts, statistics saved, latest FISA rules, sponsors, full drivers and constructors championships and so much more.

NEW

Includes latest up to the minute details
NOW WITH FULL 1994 Circuits, drivers, teams, etc.
Incredibly addictive, produced by true formula one fans.
The most realistic formula one management simulation, guaranteed.





Just £14.95! includes instruction manual

Includes full 1994 season details
A1200 compatible

1994 season updater disk for existing owners just £3

PLEASE MAKE CHEQUE/POSTAL ORDER PAYABLE TO:- S. RENNOCKS.
Dept. AC, 1 Cherrington Drive, Great Wyrley, Walsall WS6 6NE

THE FUTURE OF FOOTBALL MANAGEMENT IS IN YOUR HANDS

TACTICAL MANAGER

The Most Sophisticated and realistic Football Management Simulation has arrived. Tactical Manager actually plays each match ball by ball - you can interrupt any match in real time and adapt your strategy according to your team's strength, tactics, fielding and the run of the game.

Operate in the national and international transfer markets selecting from 3740 real footballers and 41840 real player parameters to build your ideal team. Use the unique database-like search facility to locate any player in the league each of them with 30 real parameters to ensure ultimate realism - be aware of the positive and negative aspects of each individual.

Select from 64 (8 x 8) different and adjustable tactical approaches to your matches - do you want to mix it, man mark the opposition and play the offside trap? Improve the performance of your team by motivating them, using substitutes and placing troublesome players on the transfer list.

Retrieve 20 years of results and league tables - 21290 matches! 13 different charts ranging from the standard league table to the most bookings and most consistent player charts. Print results, tables, fixtures, transfer and Europool lists, referee and financial data, scouts and examiner reports, squads, and manager achievements dating back over the last 20 years.

Compete at friendly level, League, F.A and League, European, ECWC and UEFA Cups or challenge the top European teams.

Experience THE most sophisticated management simulation ever - Over 900 Kb of game logic programmed in Assembly code to give ultimate detail and speed and a unique 46 player multi-user system. Complete control of your team: Select your penalty, free kick and long throw takers; wingers, sweeper, captain, ball winners, playmakers, reserves and player managers.

Available Now for all 1 Mb Amigas (1 Mb required) - 25.99

Black Legend, Fulling Mill Barn, Fulling Mill Lane, Welwyn, Herts. AL6 9NP
Tel: 043J 840004

AMIGA SCREEN STAR









"Tactical Manager should satisfy even the most committed Fergie wannabee" Amiga Format

"Each game played has a realistic outcome" - The ONE

"Penalty incident quite literally had me on the edge of my seat" - The ONE
Lastability 87%

"Tactical Manager is a very absorbing football manager simulation. Extremely involving. A great game". CU AMIGA
Lastability 96%
Playability 93%

US Gold World Cup USA '94 Competition

***THE** World Cup is now over, but you can re-live the excitement of the world's greatest sporting event by entering this competition.*

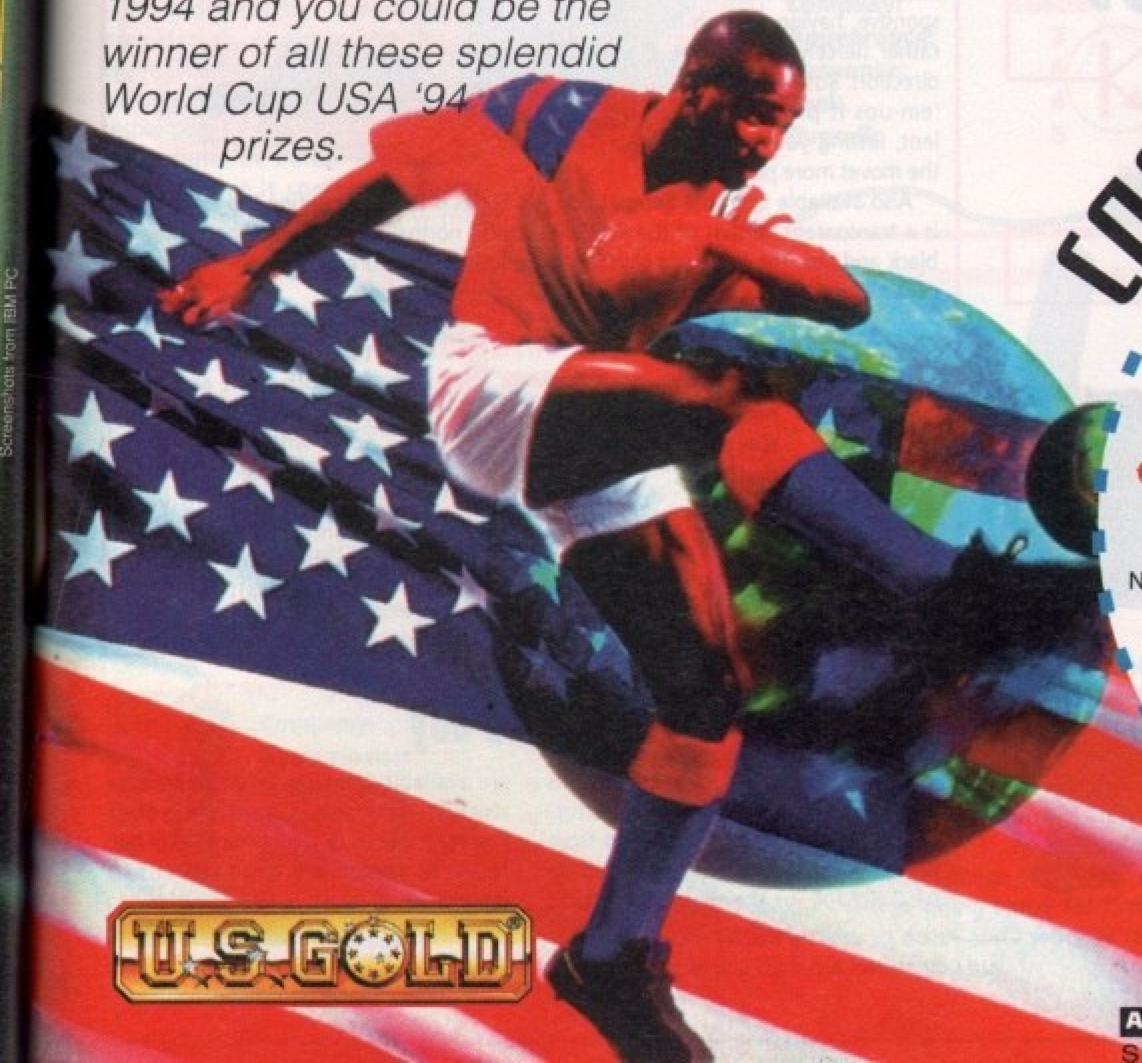
Courtesy of US Gold, Birmingham's finest and the world's most generous software house, you can win a bundle of official World Cup USA '94 merchandise.

Why are US Gold giving away all these goodies? Well, it's because they have the official World Cup USA '94 licence and their splendid game is out on your shop shelves now.

Answers the four questions and send the form in to the usual Amiga Computing address before the 25th August 1994 and you could be the winner of all these splendid World Cup USA '94 prizes.

1st Prize – World Cup USA '94 baseball jacket, sweatshirt, sports bag, pin badge, key ring and official Gloryland CD soundtrack

Runners-up Prizes – 5 World Cup USA '94 T-Shirts, pin badges, key rings and official Gloryland CD soundtrack



COMPETITION FORM

Questions

Q1. Which footballer won the Golden Boot Award in the 1986 World Cup?

Q2. Which team was beaten 1-0 by West Germany in the 1990 World Cup Final?

Q3. Germany beat Bolivia in the opening match of the 1994 World Cup, but which state was the match played in?

Q4. Who scored for Ireland against Italy in their opening game of World Cup USA 1994?

Name: ____________________

Address: ____________________

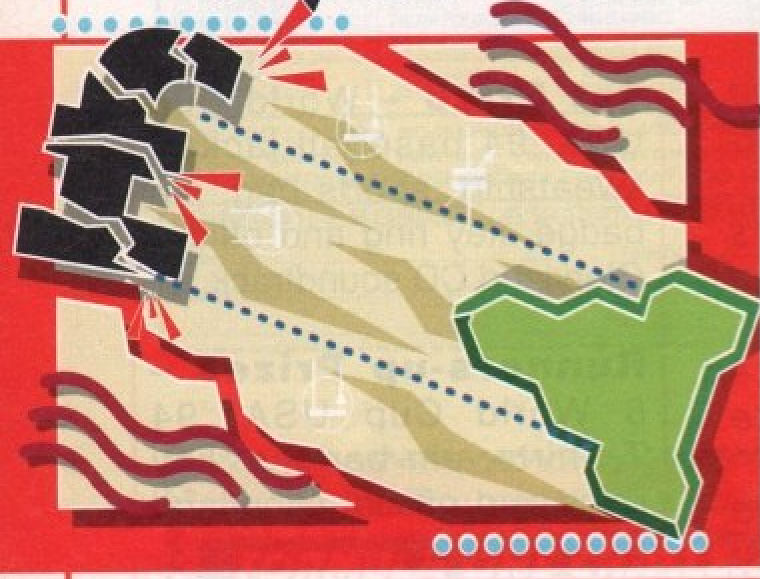
Answer 1: __________ Answer 3: __________

Answer 2: __________ Answer 4: __________

The closing date for the competition is 25th August 1994

system essentials

Stick



One of the most essential pieces of hardware that a dedicated games player must have is a decent joystick. The System team get to grips with and check out the best selection of joysticks available for the Amiga.

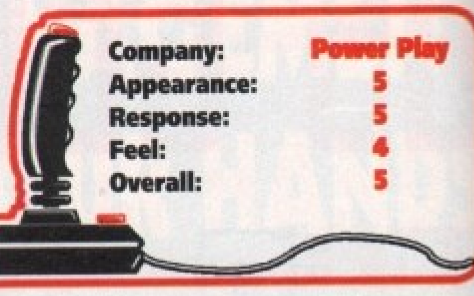


Cruiser £10.99

The Cruiser is rapidly becoming a firm favourite with games-players. There are two styles of Cruiser; one is decked out all in black while its brother is perhaps the brightest joystick you could ever buy.

Pastel shades of green, yellow, blue and pink cover the joystick and even though it might make the average gamesplayer regurgitate his/her last meal, it certainly performs well.

This is down to the unique three-way power control dial situated at the bottom of the shaft. This makes the shaft looser or stiffer and can be varied depending on the type of game you're playing. The stick and its buttons are fully micro-switched and respond well. The body of the joystick is slightly longer than most sticks and the fire-buttons seem to be further away, but the Cruiser fits snugly into your hand and after a while you forget it's ever there. A highly recommended buy and one of my favourite "sticks" of all-time.



Company:	**Power Play**
Appearance:	5
Response:	5
Feel:	4
Overall:	5

Competition Pro Extra £13.99/£16.99



The first thing that strikes you about the Pro 5000 is how solid and sturdy it feels. It has a rather short handle with the two fire buttons located on the thick rubber base.

On a game like Road Rash it felt a little too unresponsive, having to push it rather fiercely in the right direction. But for the beat-'em-ups it proved excellent, letting you carry out the moves more precisely.

Also available from the Competition Pro Series is the Competition Pro Extra. This is a transparent version of the Pro 5000 which, normally, is coloured the standard black and red. The Pro Extra contains the additional feature of an auto-fire button giving mega-blast rapid fire, short rapid burst or single shot.

The two large fire buttons provide ease of use for both right and left-hand operation. For some with smaller hands though, it becomes quite a strain to keep your thumb stretched onto the stick. Both joysticks are good all-rounders that promise durability.



Company:	**Power Play**
Appearance:	4
Response:	4
Feel:	3
Overall:	4

Zipstik £14.99



Quite possibly the most popular joystick ever created. Just about everyone I know has got one and that's simply because it handles like a dream.

No matter what type of game you're playing, the Zipstik puts in a startling performance. Whether it be a shoot-'em-up or a flight simulator, the Zipstik is guaranteed to serve you well.

OK, so it might not look like the world's best with its rather drab black and yellow colours, but it responds well and fits perfectly into your game mitts. The Zipstik is the top-selling UK manufactured joystick. It's fully micro-switched and has a robust steel shaft so it's not likely to break too easily.

If you're going to get a joystick then I recommend you at least take a look at this one before you make a decision on your purchase. A good all-rounder which won't let you down... ever.



Company:	**Power Play**
Appearance:	4
Response:	5
Feel:	4
Overall:	5

Where to buy

Although some of the joysticks in this feature are from various manufacturers, all of them can be obtained from Power Play who can be contacted on 0457 876705, or the majority of sticks are available from any good computer stockist. The only exception is the Cheetah Mach 1 which can also be found in almost any good computer stockist.

Cruiser Turbo

This is very much like its cousins, the Cruiser Multi-Colour and the Cruiser Black, but it has one distinct advantage and that is the turbo/rapid auto-fire option.

This little beast is only really useful when playing shoot-'em-ups for that little bit of extra and faster fire-power, but for this type of game it really is a god-send.

The Cruiser Turbo is very comfy, fits in the hand nicely and responds very well, thanks to its eight-way micro-switches. The Cruiser Turbo also has the ever-so useful three-way variable tension control.

Apart from the auto-fire option, this Cruiser isn't much different from its counterparts, but if fast fancy firing is your "thang" then I guess this is the joystick of your dreams – but bear in mind that it does cost you a little more.



Company:	Power Play
Appearance:	4
Response:	5
Feel:	4
Overall:	4

£13.99



it to 'em

Cheetah Mach 1 £10.99



This is quite a large joystick but very easy to use nevertheless. The long, gripped handle fits nicely into the palm of the hand, with comfortable ridges to place your fingers round. The two fire buttons are located conveniently at the very top and around the side of the stick.

An additional two buttons are provided on the base and the eight directional microswitched control feels light and very responsive.

The auto-fire button is placed on the base but it sometimes seems to fall halfway between the two without even touching it. The joystick also makes a worrying metal on plastic clicking noise when you're playing a game that requires fast joystick work.

Games that require a fast response but don't need absolute precision will benefit from this joystick as it is very light on the controls. It is comfortable to hold but doesn't really feel as though it will last.

Company:	Cheetah
Appearance:	3
Response:	4
Feel:	4
Overall:	3



Speed King £10.99



Along with the Navigator, the Speed King has its joystick shaft placed directly on top of its main body. This style of joystick might not go down too well with the computer purist, but I think you'll be more than happy with its overall performance.

The Speed King is ergonomically designed to fit snugly in your hands. It's fully micro-switched and thus responds well to your joystick movements. The fire-button is ideally situated on the side of the joystick body and can be easily accessed whenever it is required.

The Speed King won't suit everyone's tastes and it isn't the most beautiful joystick out on the market, but it's so easy to handle and has such a brilliant name that I heartily recommend it.



Company:	Power Play
Appearance:	3
Response:	4
Feel:	5
Overall:	4

Navigator £15.99

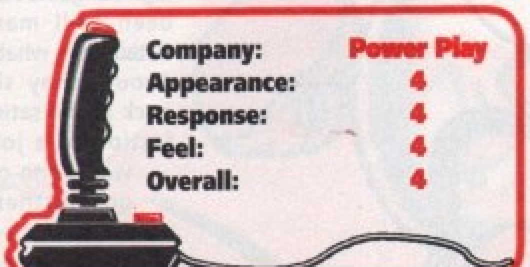
Perhaps the most unusual looking joystick out of this little batch and even though it looks like something out of Star Trek, it does work surprisingly well. This stick has been specifically ergonomically designed so that it ensures a perfect fit, no matter how big or small your hands are.

It is unlike your average joystick and it will take a while before you get into the swing of controlling it. It is perfect for shoot-'em-ups as the fire-button is placed right next to your trigger finger.

The Navigator is fully micro-switched and has a, and I quote, "unbreakable" robust steel shaft. It certainly won't appeal to every gamesplayer, but I expect that most of you will be pleasantly surprised at how well it performs.

The Navigator is one of those sticks that you're either going to love to bits or hate to death and I seriously recommend that you try it out before you buy.





Company:	Power Play
Appearance:	4
Response:	4
Feel:	4
Overall:	4

Out of system analysis



Core Design's Skeleton Krew contains strong characters with a distinctive image



Characters are often developed around requirements in the game. In Core Design's Bubba 'n' Stix, Stix developed a personality to fit the gameplay.



The games character – a necessity of most computer games that can make the difference between whether a title makes it or breaks it. But what factors decide the nature of a character? Tina Hackett investigates...

Games characters aren't exactly the first things that spring to mind when contemplating the mysteries of the universe, but they are really quite an intriguing subject to explore.

Have you ever wondered how programmers develop a sprite for a game? Have you considered why some characters become almost household names while others fall into the pits of failure, or even worse, insignificance?

Wonder no more as System probe the minds of some of the best programmers, designers and artists from some of the country's top software houses.

Perhaps the first aspect to consider is the appeal of the character, but this is an indefinable value that is hard to judge. It is obviously a very difficult thing to pin down and a lot is down to personal taste.

If software houses knew a set formula for what guarantees appeal then there would be not one duff game on the shelves and some very wealthy programmers! This is obviously not the case, so what do software companies look for?

Millennium's PR manager, Keith Smith, gives these guidelines: "The audience must be able to believe – no matter how far they stretch their imagination – that this character identifies with them.

"For example, Zig and Zag are aliens, but they have the attitude of two boisterous young boys. Beavis and Butthead are two teenagers who have slightly more adult appeal. You have to look at the intended audience and say 'Does this have natural appeal?'"

Simon McCormack of Codemasters sees it like this: "For a game aimed at younger players, the character should be simple and fun, more magical than streetwise. Characters for older players need more about them, elements of humour, slapstick, pie in your face, the way enemies are disposed of, a hip attitude, a bit of destruction, explosions, speed, a quest. Hopefully, the player sees him/herself as the character – identifies with it."

Whatever shape the character takes on, from simple blobs to beautifully animated creatures, they must be believable and have a personality. Whether it is a cool, streetwise attitude or cute and loveable, personality is vital.

"Character is the fundamental basis for a good design – unless you actually want something bland and two-dimensional. Stance and expression have to be explored to show the qualities you want to portray," explained Toby Gard of Core Design.

This is one way in which bought licences have an advantage – their personality has already been established, usually in a cartoon, for example.

They also have an established market but cost the software house a great deal of money in royalties and can restrict development in trying to stick closely to the original to keep fans of the character happy.

Getting back to humble beginnings though, it's the case of the Chicken and the Egg – well, more precisely the sprite and the game. Which comes first? Where does a company start on the road to designing a sprite? Is there a strong character in mind from the start or is it built to fit the concept of the game?

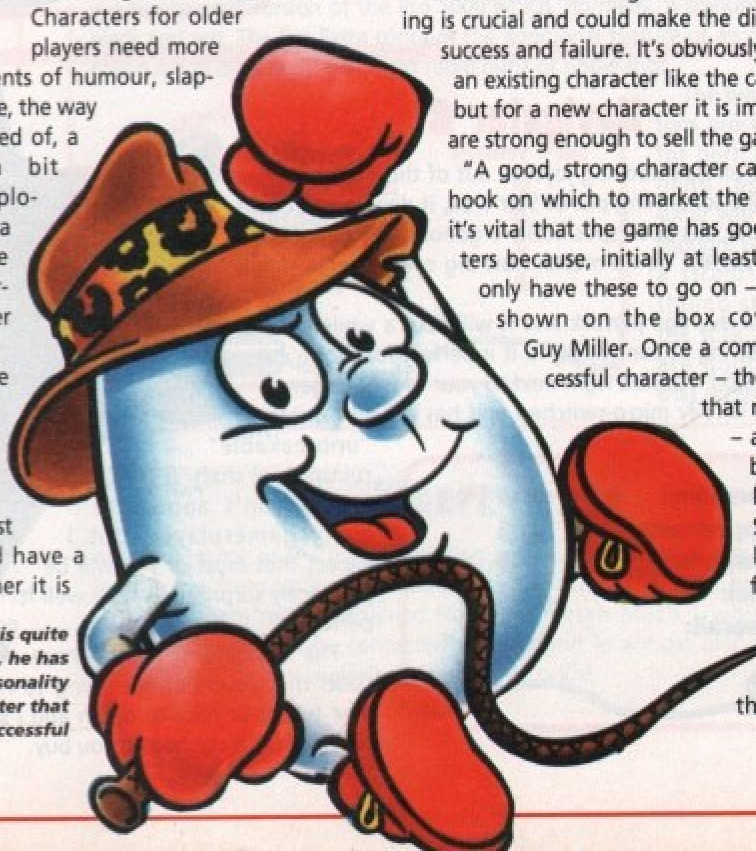
Core Design's Guy Miller states: "Invariably, the characters evolve as the game progresses, sometimes so much so that the original character sketches bear little or no resemblance to the finished product."

Paul Green, designer and graphic artist for Gremlin points out: "You can't just produce a game based on a few sketches of the main character, neither can you have a game idea and plonk any old character into that realm. It's a fine blend of both, which must be refined and sorted time after time until you've got the mix completely right."

MARKETING

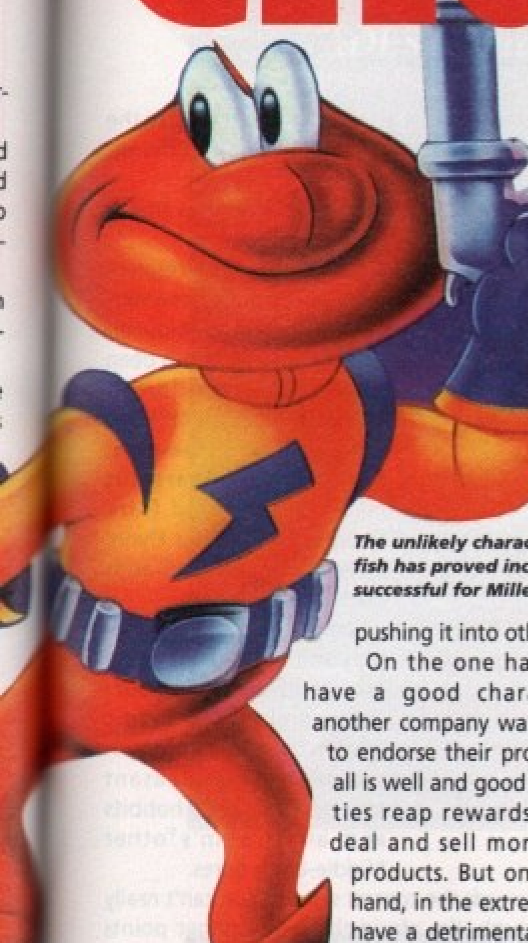
Even when the end game is looking good, marketing is crucial and could make the difference between success and failure. It's obviously easier to market an existing character like the cartoon characters, but for a new character it is important that they are strong enough to sell the game.

"A good, strong character can be an excellent hook on which to market the game and I think it's vital that the game has good, strong characters because, initially at least, the punter may only have these to go on – the characters as shown on the box cover," explained Guy Miller. Once a company has the successful character – the vital ingredients that make it a winner – and the game has been well marketed, then what? Should they sit back in the satisfaction of a job well done or go further, stretching their character and



Although Dizzy is quite basic-looking, he has developed a personality and character that makes him successful

character



The unlikely character of a fish has proved incredibly successful for Millennium

pushing it into other fields?

On the one hand, if you have a good character and another company want to use it to endorse their products then all is well and good – both parties reap rewards from the deal and sell more of their products. But on the other hand, in the extreme it could have a detrimental effect on the minds of the young.

Views within the industry on this are mixed to say the least. Simon Phipps of Core Design stated: "We must make the choice as to whether we wish them to grow up as individuals, capable of making informed choices, or whether they will grow up the eternal prey of the marketing men." According to Paul Green from Gremlin: "You have to capitalise on the market. It may sound cut-throat but after all, every company is in existence to make money."

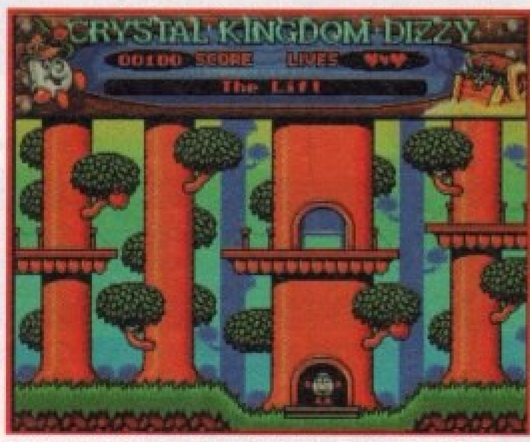
"Why can't game characters become commercial property in other fields? Twelve years ago you couldn't move for 'Six million dollar man' merchandise, and eight years ago who could ignore the Smurfs or the Wombles?

"Everyone is up in arms because we are guilty in their eyes of polluting children's minds but it's only the medium that's changed. Instead of cereal packets it's now computer games," said Keith Smith of Millennium. Taking all these aspects into account it is apparent that software houses have huge obstacles to overcome in designing games characters. They are up against an increasingly choosy public and have to compete against all the other releases that hit the shelves. They have to be spot on every time, especially in a market where mistakes prove very costly, and must move with the times and with current trends which change constantly.

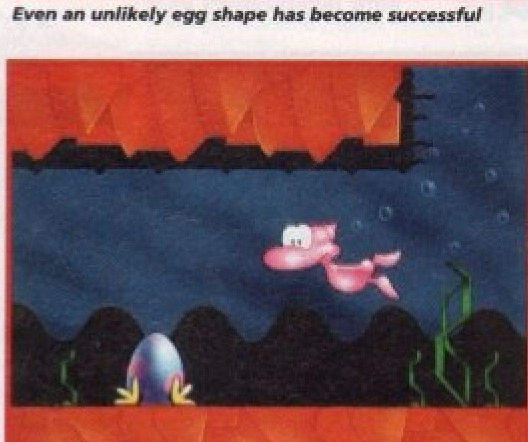
Giving an inanimate picture a personality and making it come alive is fundamental in producing a good character and they must achieve this in their design. All these are pretty tall orders and take great time and thought to get exactly right. So, next time you pick up a game it's worth considering just what has gone into the design of the character.



Gremlin's Zool has become an incredibly popular character whose appeal reaches all age groups



Even an unlikely egg shape has become successful



Pinkie – a character for the nineties

Success stories

Who better than the people in the know to give us their insights on what they believe to be their big success stories.

"Codemasters' Dizzy is a simple character, yet very successful, and has been adapted to play in every type of game. He has a personality and a background which help to bring him alive in the game, yet his simplicity means he is adaptable to many forms." – Simon McCormack, Codemasters.

"James Pond obviously was successful. Here we have a game that stars a secret agent that is a Cod. In James Pond 3 he is running around the Moon, which stretches the realms of belief right to the limit. Pinkie has already proved himself to be a good property, because he reflects nineties values." – Keith Smith, Millenium.

"The Battletoads were incredibly successful in the states – probably because they rode on the backs of the Turtles phenomena, which was much bigger in the US than over here.

"It was just a matter of being in the right place at the right time with the right well-designed characters in their own well-designed game. Success in this business is largely down to luck – that and having lots of money to begin with – to get the product to as wide an audience as possible." – Guy Miller, Core Design.

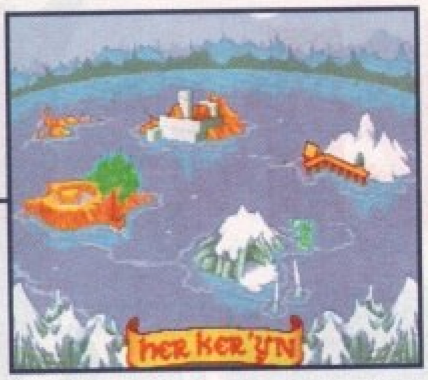
"Rick Dangerous, well, I'm pleased with him, he made it to a sequel and across six formats. He was likeable, funny and the game had plenty of twists and turns that made you go back to it for just one more go." – Simon Phipps, Core Design.



Gremlin's Litil Divil again seems to hold that magic 'appeal'



The Hall of Worlds where Heimdall's adventures begin



The map screen

Heimdall 2 CD32

Hot on the tail of the floppy format (reviewed *Amiga Computing* issue 76), Core Design have pressed the play button on the CD32 version.

The storyline remains the same – it's the age of Ragnarok. Odin tells of a place called the Hall of Worlds where you can travel from one dimension to the next via portals.

While in one of these worlds, Odin is presented with a talisman which freezes the wearer. Unfortunately, Odin smashes the talisman and throws it into four different portals.

Heimdall, hero of the piece, is selected to try and find the pieces, and thus freeze the ever mischievous Loki.

While the storyline's the same, the graphics have been spruced up. Now resplendent in 256 colour, the CD32 version rather obviously outshines it's floppy counterpart – and this is saying something because the normal A500 version is colourful enough. The other significant difference is the musical accompaniment. This has been totally revamped for CD format and sounds brilliant. It's a kind of movie montage where Spartacus meets Robin Hood (Kirk Douglas meets Errol Flynn, interesting – Ed) and adds loads of atmosphere.

Publisher: Core Design
Developer: 8th Day
CDs: 1
Price: £29.99
Genre: Adventure
Hard disk install: N/A
Control system: Joypad
Supports: CD32
Recommended: N/A

Heimdall 2 is filled with playability and blends a nice combination of puzzles, combat and magic with Norse mythology – which makes a pleasant change from orcs, hobbits and all Tolkein's other Middle-Earth bores.

If I had a criticism it would be directed towards the control system. You can't really single Core out as responsible for this though, I'm afraid the guilty finger points towards Commodore.

In designing a joypad – all pad and no joy – that would have Prince Charles screaming carbuncle, Commodore have rendered it impossible for software houses to produce easily playable games.

Anyway, that aside, Core Design have released a highly enjoyable, if tricky, 3D isometric adventure. CD32 owners haven't had much to shout about yet, Heimdall 2 should at least raise those voices an octave or two.

80%

system essentials



Another month and another chance to have a sneaky glance at the best budget titles and the odd CD release.
Simon Clays snoops.

Eye of the Beholder 2

Treading down the precarious RPG dungeon-type footprints of its older brother comes Eye of the Beholder. Obviously a sequel, Eye of the Beholder starts where its relative left off.

The story places you at the foot of a forest on your way to a temple controlled by a religious cult. Once you're inside the temple of Darkmoon the cult send you on a mission to find someone in the forest.

The forest section is well animated and gives your characters chance to build their strengths up a little. Once your four adventurers have completed this little task you can go for a romp in the dungeons that lie below the temple.



Lost in the forest, and dancing with wolves, why?

So far as play is concerned, Eye of the Beholder 2 is little different to many other RPG titles. It employs similar systems to Dungeon Master for magic, combat , view and just about every other control you could think of.

This doesn't make for a poor game though, because Eye of the Beholder 2 is a quality bit of slashing and swaying. The graphics are very well drawn, if a little juddery, and the effects, while limited, are extremely clear and concise.

Perhaps a minor criticism might be that it's a little linear and restrictive, and doesn't really allow you to explore without finding something and knocking hell out of it.

But, aside from this, Eye of the Beholder 2 is a classic investment for any lover, neigh admirer even, of this genre.

85%

Publisher: US Gold
Developer: In-house
Disks: 4
Price: £10.99
Genre: Role play adventure
Hard disk install: Yes
Control system: Mouse
Supports: A500/A500+/A1200/A4000
Recommended: N/A

Special Offer for A1200 owners

Zappo CD Rom Drive plus Free Lemmings Game

£194.99

The Great A500/A500+ Trade-in

Call for Details

Must be in working order with PSU, Modulator & Workbench disks. Trade in for A1200/A4000s

Black Cat Computers

Freepost SF1285, Sheffield S2 1ZZ
Tel/Fax: 0742 769600
Prices include VAT. Postage FREE

No. 1 for Technical Service
We sell all sorts of products including: Scanners, Modems, Laser Printers, CD-Rom Drives, Games Software, Joysticks, Educational Software & much much more!

UPGRADES (Amitek)

A500+ 1Mb Ram Board	£30.00
A600 1Mb Ram + Clock	£40.00
A600/A1200 2Mb PCMCIA Ram Card	£109.95
A600/A1200 4Mb PCMCIA Ram Card	£159.95
Hawk A1200 1Mb Populated -No PFU	£94.14

Many others – POA

GVP

HD8 + 0Mb HD	£149.99
42/80/120Mb HD Options	POA
A530 42Mb HD	£389.00
80/120Mb HD Options	POA
DSS8 + Sound Sampler	£64.00
4Mb Simm	£189.00
16Mb Simm	£1205.00
Image FX	£189.95

PRINTERS

Citizen ABC	£149.99
Epson LX400	£139.99
Seikosha SP1900+	£124.99
Seikosha Speedjet 200	£179.99
Canon BJ200	£269.99
HP Deskjet 560C	£517.08

MONITORS

Microvitec 1438 14" 0.28m dot pitch	£289.99
Sharp TV/Monitor 14"	£164.00

A1200

Computer Combat	£329.99
80/120/200/340 Mb HD options	POA
Innovations	£329.99
Race 'n' Chase	£289.99
80/120/200/340 Mb HD options	POA
Desktop Dynamite	£329.99

A4000

All include Deluxe Paint 4 AGA, Wordworth, Print Manager

A4000/030ec 4Mb Ram 0HD	£874.00
214/540 Mb HD Options	POA
A4000/040lc 6Mb Ram 0HD	£1390.00
214/540 Mb HD Options	POA
A4000/040tw 6Mb Ram 0HD	£1734.00
214/525/1050 Mb HD Options	POA

A600

Wild, Weird, Wicked	£195.99
Lemmings	£185.99

Easy PD

PO Box 36, Frodsham, Warrington WA6 6DJ. Tel 0928 732 550

Fast Friendly Service – High Quality Disks – The Best PD around

PLAY

66 Tetren
One of the best Tetris games around. Progressive difficulty and two players. A great game.

498 Speccy Classics
A collection of early classic Spectrum games for emulator.

530 Bondmine 12
Boulderdash games are always good, and this in no exception. Mindbending at times.

565 Road to Hell
Overhead racing at its best. Grab a friend, customise your cars' then let rip on the track.

680 High Octane
Yet another overhead racer, and yet another excellent game. Two player mine and missile fun.

810 The Ultimate Games
All the "Ultimate" Speccy games to load into the Spectrum Emulator.

1209 Gush
The best Pipemania type game you can get. Beautifully playable and fiendishly addictive.

1213 Starbase 13 (2 disks)
A PD Monkey Island. Not quite, but a very good try, and a very good challenging game.

1308 Golden Oldies
A must have disk this one! It contains all the old arcade favourites of a bygone time, including Asteroids etc.

1735 Klawz The Cat
He's cute and it's a platform game. A popular combinaton which results in a great game.

1909 Diplomacy
A computer version of that classic board game. Very polished.

2206 Fleuch
A modern day version of Thrust, the classic 8 bit computer game with nerve racking action.

SERIOUS

45 N-Comm 3
If you have a modem then you will need this excellent program.

293 Amibase Pro 2
Top of the crop as far as database programs go. Easy to use and powerful enough for any use.

415 X Beat Pro
This is a terrific music sequencer program that is a joy to use. Very high quality, professional even.

442 Pools Tools 2
A tool to help you with the pools. Easy to use and quite polished.

607 Forecaster
If you have the patience, then this program should help you a lot to pick out a winner.

1042 Easycalc
The best spreadsheet program you can get. Very easy to use with quick clear display.

1281 PC Task 2
This is a working demo version of a very proficient PC emulator.

1291 Sat Track
A good program for tracking satellites. Probably the only one.

1512 Dynamic Skies
This is a fantastic night sky viewer. If you're into astronomy then you really should get this.

1811 The Money Program
A simple to use but powerful program for keeping track of your finances. Can be an eye opener.

1817 Account Master
A great bookkeeping program.

2071 Edword Pro 4
The best text editor you can get.

2657 Electro CAD
Design your own electric circuits with ease. An enthusiasts dream.

UTILITY

386 V Morph
Create your own morphs. Wow.

634 Professional Utils
A very good selection of programs that you should not be without.

703 F.R.A.C.
Create your very own adventure games with this nippy program.

901 SID 2
The most popular file management program ever.

1087 VIC 20 Emulator
Turns your Amiga into a VIC 20. Comes with tons of games. Needs fast Amiga to run well.

1227 Crunchers Disk
If disk space is tight, what you need is a cruncher. You will find 60 of the best on this disk.

1249 Grinder
A program to convert screens saved in one format to another.

1446 Spectrum Emulator
An excellent program which will literally turn your Amiga into a 48k ZX Spectrum.

1579 Menu Master 3
If you want to compile your own disks then you could do with this program to provide a selector.

1863 Classic Utilities
As the name suggests, this is a collection of true classics.

2143 Sample Maker
Make samples without a sampler. Sounds weird but it's true.

2161 Crossword Creator
A program for making crosswords in case you didn't know.

2375 Opti-Comms 2
A good collection of programs to get you going with your modem.

2582 D-Copy 3.1
The most copied disk copier ever.

MUSIC/DEMO

19 State of the Art
Great music, brilliant visuals add up to an all time classic demo.

383 9 Fingers (2 Disks)
The follow-up to the above, which somehow goes beyond it. Get it.

547 Sequential
A roller coaster demo, literally with some lovely artwork.

938 How to Skin a Cat
A popular demo, for some reason.

980 Piece of Mind
A brilliant demo with great 3D vector graphics and some classic tunes. A good experience.

1059 Basso Continuo
Ten tunes on one disk! They are all very good too, and funky.

1114 Kaos Theory
Rave generate Amiga!

1117 Techno React 2
Some of the best music the Amiga has ever seen. Pretty swanky too.

1607 Club Mix 3
A good mega-mix of popular music.

1243 Attraction
Who says all good music disks are techno/rave disks? This one has slow dreamy music, and it's great.

1664 Techno Tracks 2
A great demo with some awesome music. Miss it at your peril.

2261 Desert Dream (2 Disks)
Great music, great effects, a true demo classic if ever there is one.

2462 Something for your Mind
Yet another classic demo with an excellent title track.

2724 Gastric Ulcer
Some pretty hard techno music with some nice fractal screens.

2781 "242"
Fairlights massive full motion extravaganza.

A1200 ONLY

363 Workbench Screens
Brighten up that dull workbench screen with a very nice one.

583 Sleepless Night 3
A solid collection of utils that are guaranteed to work on 1200.

719 Magic Factory 1
A fantastic slideshow of Star Trek pictures. An AGA treat.

782 Klondike Deluxe (3 disks)
The classic patience game with beautiful pictures on the cards.

842 Megaball AGA
One of the most popular games of all time goes AGA. Whoopee!

1020 Assassins Fix Disk
Disks won't work on your 1200? Get this and improve your chances.

1268 Point of Sale
A classic AGA demo.

1622 Vistas 2
Some lovely hires full colour fractal landscapes to drool over.

1717 Magic Factory 2
Yet more stunning artwork.

1740 Full Moon
Good Graphics and good music make this a great demo.

1784 Planet Groove
A good demo with a great original tune. A nice cute disk.

2007 A1200 Hacks
Cheer up that sad workbench with one of these little beauties. Guaranteed to bring a smile or two.

2215 Big Time Sensuality (2 disks)
Brilliant graphics really show off your 1200 in this great demo.

2918 Relokick 1.4
Downgrade your 1200 with this essential disk, and get those old programs running.

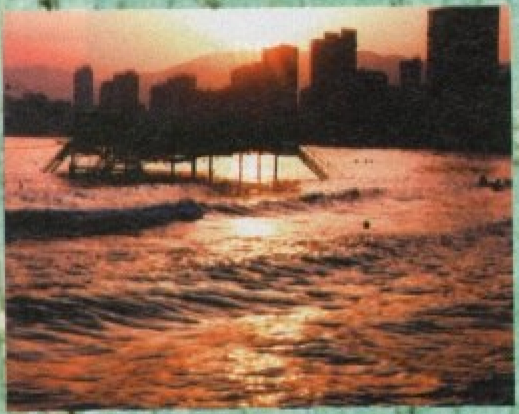
ALL DISKS ARE £1.00 EACH
Order 10 disks or more for 90p each. Postage: UK 75p. Europe add 20p per disk. Payments must be in pounds sterling

A FREE CATALOGUE DISK
Will be sent with your order. There are no lists. It is a database packed with useful features.

To order your disks simply write down the catalogue numbers of the titles you want, add up how many disks this is, multiply by the appropriate price and add the postage. Then send it along with a cheque postal order for the total amount payable to "Easy PD" at the above address.

Alternative 3D Textures





Volume 3 of the Alternative 3D Texture library is now shipping. Our new approach to textures now means that using JPEG compression we can supply over 100 stunning images in this 12 disk set. Each image is supplied at full 24 bit broadcast resolution (768x576).



This volume contains images that are ideal for background use in presentations - many of them also make stunning 3D texture maps. The images are arranged in 12 categories - Architectural, Landscapes, Maps, Metals, Miscellaneous, Organic, People, Raytrace, Skies, Stone, Water and Wood. Some of the images are supplied with alpha channel masks for compositing over other backgrounds (see the Evolution of Man image in this advert).

Also now available are Volumes 1 & 2. Each set contains 12 images supplied in 4 sizes/resolutions.

Volume 1 includes - Grass, Rich Marble, Silver Birch, Sky, Bark, Walnut. Also supplied with Real 3D Classic Support Disks 1 (tutorials & example animation files, eg. water effect).

Volume 2 includes - Cork, Sand, Sea Stone, Classic Marble, Shell. Also supplied with either Real 3D Classic Support Disks 2 or Imagine 2.0 Support Disks (you choose).

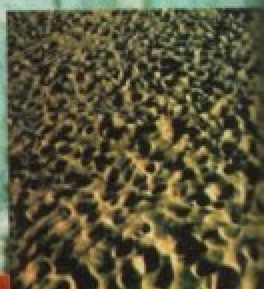




Prices:

Alternative 3D Textures Vol 3	£51.50
Alternative 3D Textures Vol 2	£41.50
(please specify Imagine or Real 3D Support Disks)	
Alternative 3D Textures Vol 1	£41.50

ALL PRICES INCLUDE VAT + P&P





Contact us now to talk about any videographics software/hardware requirements.
Alternative Image, 6 Lothair Road, Leicester LE2 7QB
Tel: 0533 - 440041 Fax: 0533 - 440650 MasterCard/VISA Cheque P.O.

AMIGA Snippets COMPUTING

To place an ad on this page call Barbara Newall on 0625 878888

Copy dates:

Oct	1 Aug	On sale 25 Aug
Nov	30 Aug	On sale 22 Sept
Dec	26 Sept	On sale 20 Oct

Free typesetting service provided

49.5mm x 35mm

103mm x 35mm

49.5mm x 74mm

KEW=II SOFTWARE

Est. 1989

THE BEST QUALITY PD & SHAREWARE

The LEADER – OTHERS CAN ONLY FOLLOW!

FREE FRIENDLY HELP BY POST or PHONE ANYTIME! FREE CLUB MEMBERSHIP

PICK YOUR OWN PROGRAMS! BY NAME NUMBER AND SIZE! IT'S EASY!
500k makes 1 bootable disk!
800k makes 1 non-bootable disk!

FREELY UPDATED CATALOGUE WITH FULL DESCRIPTIONS INDEX & VIRUS CHECKER ONLY £1!
Phone for the LATEST PROGRAMS!

PO Box 672
South Croydon
Surrey CR2 9YS
Tel: 081-657 1617

1-3 disks £1.50
4 or more ONLY £1.25!

FREE P&P

CAPRI CD DISTRIBUTION

CDTV — ALL AVAILABLE TITLES IN STOCK — AMIGA CD32

75+ CDTV titles (most compatible with CD32)
60+ CD32 TITLES/VIDEO CD TITLES

NEW RELEASES AVAILABLE NOW

Lock n' Load £19.99 CDTV/CD32
Aminet 2 £19.99 CDTV/CD32
CD Exchange 1 £19.99 CDTV/CD32
Gold Fish (2 CDs) £29.99 CDTV/CD32
Defender of the Crown 2 £29.99 CDTV/CD32
Grolier Ency 2 £99.99 CDTV/CD32
Euro Scene 1 £14.99 CDTV/CD32
Guinness Disk of Records 2 £39.99 CD32
Network CD & Cable £34.99 CD32

CD32 SPECIAL OFFERS

Overkill/Lunar C £14.99 — Mean Arenas £14.99
Alfred Chicken £14.99 — Pinball Fan £19.99
7 Gates of Jambala £17.99 — Prey Alien Enc £17.99

CAPRI CD DISTRIBUTION
Dept AC1, 9 Dean Street, Marlow, Bucks. SL7 3AA
TEL/FAX: 0628 891022

TRADE ENQUIRIES WELCOME

FREE PD SOFTWARE

ICPUG

AMIGA - PC - All Commodore
Half year subscription July-Dec £12.00 UK only
Call (081) 651 5436 or
Write to 45 Brookscroft, Linton Glade, Croydon CR0 9NA
Independent Commodore Products Users Group

Are You Missing Out on the VERY BEST AMIGA User Group???

Thousands of New Contacts, Free Help & Advice, Second-hand Hardware. Software and Hardware bought / sold / exchanged. Exclusive massive Club discounts. Latest product information and member reviews. Plus the best Fanzines/diskzines and Millions of PD/Shareware titles at unbelievable member only prices. Exclusive Newsletters, BBS and much, much more... Find out what you're missing by sending an SAE for our FREE intro pack to:

C.C.C. (AC9), PO Box 121, Gerrards Cross, Bucks, SL9 9JP
(0753) 884473

Trade and Dealer Enquiries welcome Plus FREE publicity for new software/fanzines etc. Contact us now!

TOXIC SOFTWARE

28 Sandbeck Ave, Skegness, Lincs, PE25 3PX
(0754) 760665

Disk Prices	
1-10	£1.00
10-20	£0.90
20-30	£0.80
30+	£0.70
P&P	£0.70

Catalogue Disks £0.75
Blank Disks £0.35

Utilities, Animations, Slideshows, Fonts & Clipart, Demo's
Fred Fish 1-460, Games, Assassins Games Disks, LSD Legal Tools, Music

P.D

Please make cheques payable to:- TOXIC SOFTWARE PD

Amiga-64-Link £23.50

Inc VAT P&P

Links C64/128 peripherals to the Amiga parallel port (C64 not required)
Use your old C64 printer with the Amiga (MPS, DPS, Star, Citizen, Seikosha, Brother...)
Transfer C64 disk files to the Amiga (BASIC, Easyscript, Sequential, Binary...)

York Electronic Research Tel (0904) 610722 Fax (0904) 670063
The Paddocks, Jockey Lane, Huntington, York, YO3 9NE
11am–6pm Mon–Sat

PRIORY SOFTWARE

AeroSpotDB	£7.00	Civil Plane Spotters database.
AnyYearCal	£6.00	Calendar for any year, or any month from any year. Gives various monthly and year to date info.
CarRunningCost	£8.00	
RadioLog	£7.00	Radio log book.
RadioMemDB	£7.00	500 Channel Radio memory database.
Statement	£7.00	Bank Statement.
TempsQNH	£7.00	Temperature & Pressure databases.
TrainSpotDB	£7.00	Train Spotters database.
WeatherDecoder	£9.00	Decodes Synop and Ship weather reports from RTTY Met stations. (A RTTY decoder with ASCII output is required to make use of this program).

All software for OS 2 and above, PAL only.
Prices include p&p. Payment by cheque or PO. Or send SAE for program details.
7 The Priory, 137 Priory Road, Hungerford, Berks, RG17 OAP

HORNESOFT P.D.

EST 1990

Over 11,000 Amiga PD Disks, priced from just 30p to 75p.

Fast friendly service.
We stock the lot including:
Fred Fish, Assassins, T Bag, A1200 only etc
Now in! F1 Licenceware

Also available: Final Frontier issue 6 for just £6.20 inc p+p. Also Holodeck 3 & 4 £2.50 each inc p+p

Send SAE plus disk to address shown below for free catalogue or send 75p postal order/cheque made payable to Hornesoft PD.

No minimum order, no fuss, just good quality Amiga PD to suit everyone's pocket

Hornesoft PD, Dept AMC, 23 Stanwell Close, Wincobank. Sheffield S9 1PZ
Tel: 0742 492950

MILITARY SIMULATONS

Barbarossa June 1941 @ £17.00
For those interested in intelligent strategy wargames. Send SAE for details to:

KW Software
155 Ringinglow Road, Sheffield S11 7PS

WANT TO CHEAT!!

Tips and Cheats Booklet

Consisting of Tips, Cheats and Level Codes for over 200 of the most popular Amiga Games

Please send cheque/P.O. for £2.95, made payable to S. FFORDE.
Featherstones, Penhallow House, 33 Carbery Avenue, Southbourne, Bournemouth, Dorset BH6 3LN

BUS STOP PD

What do you want from a PD Library?

- 24 Hour Turnaround?
- Possibly the best catalogue in the country?
- Friendly service run by Women?

All this for 85p per disk?

Then send 50p + SAE for our catalogue of 2000 + disks to:

Dept CO, 2 Wycliffe Terrace, Gilmorton Road, Lutterworth, Leicester, LE17 4DX

WHY PAY ££'S TO REPAIR YOUR A500 WHEN YOU CAN REPAIR IT YOURSELF

The A500 Repair Manual enables both the novice and the expert to carry out successful repairs to their Amiga A500.

Special Offer: Order now and receive *a free diagnostic disk*

Price only £5.95 including post and packing

Send cheque/PO made payable to A. Plaskett to:

A. Plaskett, Dept. AMC, 2B Meadowside, Chelmsford, Essex CM2 6LN
Tel: 0850 627066

FANTASIA P.D. AND SHAREWARE

SEEING IS BELIEVING

Over 8000 disks, DEMOS, ANIMATIONS, MUSIC, FRED FISH, ARUG, JAM, AGA, N.Z., GNU UTILITIES, MODEM AND COMMUNICATION PROGRAM, VIDEO GAMES, STRATEGY GAMES, TECHNICAL DOCUMENTS

As you can see the list is endless.

Priced from 40p to 99p per disk + 40p P&P. Catalogue disk 70p or send a blank disk + S.A.E.

DON'T DELAY ENQUIRE TODAY.

40 BRIGHT STREET, GORSE HILL, SWINDON, WILTS. SN2 6BU. TEL: 0793 610134 24HR LINE

Make all cheques or postal orders payable to R. A. Woods

PLEASE NOTE WE ARE A NON PROFIT MAKING P.D. HOUSE

ONLiNE PD

TEL: 0704 834335
BBS: 0704 834583

NEW - PICK 'N' MIX
From our cat. disk choose the modules, samples or art you require & we'll put them onto disks for you. Send for our catalogue disk for further details.

ASI GAMES 1 TO 196 — **75P**

Remember for every 10 disks ordered another may be chosen **FREE**

HARDWARE ITEMS

The Following Items include VAT & FREE Delivery/Insurance & come with a 1 YR Guarantee.
MODEM - High-Spec 14.4 Data/14.4 Fax, 57,600 Bps Incl. Amiga & PC comms Software. Only **£155**.
HARD DRIVE - Seagate, High-Performance 525 MB IDE 3.5" 10Ms 256Kb cache (Suitable for A4000's & A1200 Overdrive Unit's, also available with purchase) Only **£379**

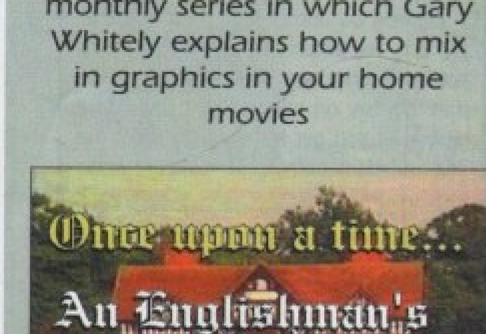
CATALOGUE DISK

Send 2 1st class stamps or 50p or SAE for a Cat. disk listing & describing 1,000's & 1,000's of Pd disks

Cheques/P. Orders payable to Online Pd, Dept. AC, 1 The Cloisters, Halsall Lane, Formby, Liverpool, L37 3PX.

AMIGA GUIDE

Untangling the problems and inner depths of your machine to maximise its potential in all areas from music and comms to video and more...



HOW 2

Start an home office

Setting up

The world is changing every day and more people are taking the hint that new technology could transform their lives. Some of them are setting up offices at home, so they can spend a more relaxed time working from home once in a while. It takes the stress out of high pressure jobs and boosts productivity.

For those in high pressure jobs which don't allow working from home, the option to go freelance (and the hell with 'em) is an nice way out. But can you do this using your Amiga, and how do you start to put together a home office? Well, I can tell you because I did it.

Working from home sounds like such an idyllic thing to do, doesn't it? The fridge is only a few steps away, full of cool beers and that nice ham you got from Sainsburys the other day which would sit beautifully on that crusty bread.

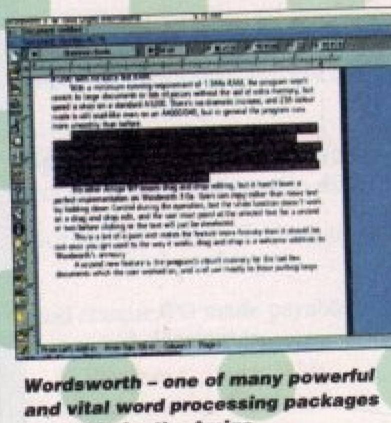
You can step out in the fresh air for a second if you like, sit with your feet up on the desk, play Nuclear Trouserpress Invaders until the cows come home, right? Well, okay so you have to do work too, but you can choose when and where you do it, right?

The thing is that working from home is a blessing and a curse. You can do all of the above and more, but you also have to find work, do work, issue invoices, chase money and then start the whole degrading process over again. Plus you have to find the time to do your accounts, pay your tax and national insurance, maintain your equipment, figure out how much you're getting paid and if that's more or less than your outgoings, think about the future of your business and how to make it grow, and occasionally you might get a weekend off.





The Hewlatt Packard range of printers offers good print quality coupled with value for money



Wordsworth – one of many powerful and vital word processing packages available for the Amiga

So let's take this slowly. First question: What do you need?

Well a computer would be nice. Oh look, I've got an Amiga, will that do? Of course it will, meathead. It's the finest (and cheapest) graphically stunning, fast, multitasking computer that money can buy.

Well, that's that then, job done. Now where's the newspaper... Hold on, what if someone wants to send me a fax? Offices have them, you know.

Fax modems are all over the place, and this kills two birds with one stone. First it gives you fax capability very cheaply. Secondly it gives you a nice fast modem, which is the key tool if you wish to be a work-at-home bod or a telecommuter.

Fax modems are just like normal ones except they have a special chip set which allows them to be used (with appropriate software) as a fax machine.

The two really worth looking at are either the US Robotics Sportster 14,400 or the Supra 14,400 Fax modem. You get a brilliant fax plus a sprightly 14,400 baud modem, and both are now under £150. It is definitely worth shelling out the extra, as slow modems cost you money in the long run.

VOICE MAIL

It's worth mentioning the GVP PhonePak, as this solves a number of problems in one easy card that slips into a Zorro Slot. It's a fax machine, but it's also an answering machine and a fully configurable voice mail system. With it you can create voice mail boxes, or a fully-automated help line, for use with touch tone phones.

One of the next things you will need is a printer for sending letters, printing out headed paper and doing artwork for business cards etc. In this day and age a dot matrix just doesn't cut it as the all round

Frequently asked questions

Q How do you arrange a PO Box number?

A The first step is to call your local Post Office and ask for the number of the local district Customer Services Dept. They will give you the number and you can then call Customer Services and get a run down of the current conditions and charges. It used to be £80 per year.

Q Is it worth getting VAT registered?

A You are not liable for VAT until your earnings have reached a certain level, and quite a high level at that. You can register for VAT before you reach that level but it's not advisable as you then have to charge VAT to your customers and get VAT receipts, plus you have to do your VAT returns every three months.

It's a messy business and best left alone until it becomes necessary. Your accountant can advise you on this subject.

Q Should you get an accountant?

A Yes. They cost very little and save you huge amounts of tax money. Not only that, the tax office is more likely to believe your accountant that you haven't earned any money this year than they are you.

Getting an accountant costs nothing, you only pay when they do your accounts, and all through the year before and after that they are on hand to give you advice whenever you get a scary letter from the TAX or DHSS people. Accountants are worth their weight in money.

Q Where can I get advice on designing my business plan?

A Any high street bank will have a financial advisor who will be happy to advise you on any aspect of starting and running a business.

If only I knew then

I've been running my own business now for about five years and I had to learn all this stuff from scratch. So what advice would I pass on if asked? It's hard to know where to start, really.

Okay, first and foremost: Tax and NI contributions. Pay them. Don't mess about and think you'll get the money together somehow later on. Pay your NI contribs by Direct Debit (hurts less that way) and get an accountant.

He will tell you to put 25% of everything you earn in a building society account until it's time to pay the tax man. Usually when you pay up you'll have some left over.

Work out a monthly budget. Write down on a sheet everything you need to pay out every month, then you'll have an idea how much you have to earn and still have some pennies left over to buy essentials like food and compact discs.

Then when you go out to get work you'll know how much you have to get in every

a home office

Phil South looks at the perils and pleasures, the pitfalls and problems of taking all your work home to an Amiga

printing engine.

OK, so they aren't too bad in colour, but now the price of colour inkjets is coming down you really don't have to think about them. If you want a black and white printer, go for either a Canon BubbleJet BJ20 or Hewlett Packard DeskJet 550.

In colour go for either the Canon BJ or the HP DeskJet colour inkjets, or even the A3 models from the same makers. After that you're in laser printer territory, and I hate to say it, but the Apple Personal Laserwriters look very nice for the price.

Ah, but is a big box machine necessary? A lot of this stuff seems to run on Zorro cards and the like, so do you need a 2000, 3000 or 4000 to run a home office. No, not really.

Most of the applications are just as happy in a base level Amiga as they are in a top-of-the-range workstation. You can run just as good a business on a 1200 as you can on a 4000.

Once you get started with software it's hard to know where to stop. For example, do you need a DTP program like Professional Page, or will a word publisher like Wordworth or Final Copy do?

It depends really on what you have in mind. Most word publishers will be okay for correspondence (especially with a nice inkjet printer), and perhaps a simple newsletter, but for magazines and more advanced textual flipping and jiggling, you'll need the services of a DTP program.

One tip: if you do use a DTP program, limit yourself to two fonts – one for headlines and one for main texts. (This is an Amiga Computing Instant Design Sense Tip: just add water.)

On the more serious side, spreadsheets and databases are used by a lot of home-based businesses to keep tabs on the accounts and products, if indeed you actually make something to keep tabs on.

Both the major pieces of software, KSpread 4 and Superbase 4, incorporate the ability to



Phone-Pak – a fax, answering machine and voice mail system all in one package

import and export files to and from the industry standard programs on other platforms, like Lotus 1-2-3, dBase and Excel.

This means whatever systems are installed at the site you are working for, you can pretty much send and receive data from them. Obviously the level of compatibility only extends to a limited range of commands, but for most purposes this won't present too many problems.

GOING ON-LINE

For example you don't use EVERY word in the English language all the time, do you? So why would you use every SQL term or 1-2-3 command?

So is it worth being on CIX and CompuServe? Being part of an on-line service is invaluable for two reasons – being able to talk to people when you're stuck at home working all day, and for getting contacts for work. Although CompuServe is a trifle more expensive than CIX, it's worth being on CompuServe if you are in business consultancy, PR or marketing, because of the wealth of up-to-date information you can buy on all these topics.

CompuServe costs $8.95 per month (as it's based in the US), and there are on-line charges during the day until after 7pm when the basic connect time is free, and on top of that you have to pay for anything other than basic services on an hourly rate.

CIX has a £25 registration fee, plus a connection charge of £2.50 per hour off peak and £3.60 per hour peak rate.

It's worth being on Demon Internet too, as this has a registration fee of £12.5 plus a flat rate of £10 per month. This allows you full access to all the Internet resources and

Up and running



Usenet News in a friendly and cost effective way.

Once you've got all the hardware and software together, the rest is up to you. The business you are in can be anything, but your Amiga will be able to help you stay efficient and cost effective.

It costs you nothing to feed your Amiga and allows you to produce a huge amount of productive work. That's the basis of a sound home office.

what I know now

month to hit your target. Ignore this advice at your peril, as you will go under in a couple of months unless you are hitting those targets.

Make work plans. Figure out how much time each job will take and stick to it. Don't leave jobs till the last minute. Keep everything, especially receipts for stuff you buy for the business. This will stand you in good stead when you come to do your accounts.

Write down all your ideas in a big notebook. If you don't write them down you will forget them, and ideas are money in the bank.

Get an answering machine and use it. If people can't get hold of you they won't give you the work.

And finally take notice of health issues. Sitting at a computer all day is bad for you. Take regular breaks, make sure you're sitting comfortably at the computer and that there is enough light in the room so you don't develop a squint.



For under £150, the US Robotics Spotster offers fax and modem capabilities running at 14,000 baud

GAMES

- G4 **MEGABALL** Breakout – very addictive
- G5 **STAR TREK I** (2 disks) Space (Not A1200)
- G13 **CASTLE OF DOOM** Adventure
- G15 **GOLDEN FLEECE** Text only adventure
- G22 **CARD GAMES** Harp, Plait, Queens etc
- G34 **RETURN TO EARTH** Elite type
- G35 **LLAMATRON** 512K & 1Mb Shoot 'em up
- G41 **ESCAPE FROM JOVI** Space Arcade
- G44 **BATTLEFORCE** Fantasy roll playing game
- G45 **DRAGON CAVE** Dungeon Master type
- G52 **GREYSLAYER** Arcade adventure
- G54 **STAR TREK 2** (3 disks)Not 1200
- G56 **FRUIT MACHINE** * Excellent
- G57 **MECHFORCE** (2 Disks) RPG
- G62 **AIR ACE II** World War 2 S.E.U.
- G67 **TREASURE HUNT** (6-8 yrs)
- G68 **CHEAT LIST GAMES V1.0**
- G72 **TREK-73** Space text adv
- G73 **ZEUS – THE GAME** Puzz tiles
- G74 **DUNGEON DELVER** (2 Disks) Mazes
- G75 **PICK UP A PUZZLE** * (2 Disks) Jigsaws
- G76 **CHAINSAW DEATH** * Futuristic maze type
- G77 **CAN YOU PICTURE IT** * (2 Disks) Jigsaw
- G79 **BALLOONACY** * Bomb the skyscrapers
- G82 **BLACKJACK** Card game
- G88 **AMIGAMAN GAMES** 10 games
- G92 **STAR TREK THE NEXT GENERATION** (Not A1200)
- G94 **HACK** Text adv
- G95 **DRAGON TILES** Great tiles game
- G96 **BOARD GAMES**
- G97 **ATIK ATAK** C64 game
- G99 **BART SIMPSON** Scrolling S.E.U.
- G125 **RAMIFY** Pairing
- G126 **RUSH HOUR** Frogger – Get across the road
- G130 **WIZARD WORLD** S.E.U. Platform
- G131 **WORLD OF FOOLS** Shoot em up
- G133 **CARD SHARP** 5 card games
- G134 **TOTAL WAR** Risk type
- G136 **SKYFLYER** WWII S.E.U.
- G137 **PUGGLES** Q'bert brill
- G138 **SQUATS REVENGE** Wolf clone
- G139 **PAIR IT** Shapes
- G140 **GAMES COMPILATION I** 6 games
- G141 **ATLANTIS I** Strategy
- G142 **NAPOLEONIC WAR SIMULATION** Strategy
- G143 **MISSION RAID PART II** S.E.U.
- G144 **SNAKES & LADDERS** Good
- G145 **GAMES GALORE VOL 7** For the young
- G146 **AIR WARRIOR** Flight simulation
- G152 **DUNGEONS OF NADROJ** Hacktype
- G153 **QUICK & SILVER** Platform. Excellent
- G154 **MASTER OF THE TOWN** Shoot the sign posts
- G156 **ETHOS** Text adv + pics
- G157 **BATTLE CARS** 3D cars S.E.U.
- G158 **CHALLENGER** Quiz - 5 player
- G182 **CATACOMB** Graphic adv – very well done
- G183 **KINGDOM AT WAR** War games
- G184 **SMASH TV RIPOFF** S.E.U. Futuristic
- G185 **DOODY** Mario type platform
- G186 **PICK OUT** Pair it. V. good
- G187 **NU-SHOOT EM UP** Space
- G189 **STRIKE BALL** Baseball. Brill!
- G192 **CRAZY SUE** Platform. 1st rate
- G193 **HENRY IN PANIC** Manic Miner type
- G194 **CONCENTRATION V3.3** Pair it type
- G195 **DESTINATION MOONBASE** Thrust
- G196 **ESCAPE FROM JOVI III** Caves
- G197 **NO MANS LAND** War S.E.U.
- G198 **DOMINOES** V. Good
- G200 **MIDNIGHT THIEF GAME** Adv
- G204 **GRUB GRABBER II** Help Elvin! Avoid gremlin
- G205 **SWORD OF WORLOCK** 3 disk Adv.
- G206 **A NIGHT AT THE TOP** Terrorist adv
- G208 **QUADRIX** Puzz. Excellent
- G209 **YUM YUM** * Pacman
- G210 **REVENGE MUTANT CAMELS** S.E.U.
- G211 **BATTLEMENTS** Hunchback platform
- G212 **LEMMINGOIDS** Blast them!
- G218 **KARATE WORM** Platform-cute
- G219 **SNAKE IN THE GRASS** Platform – neat
- G221 **WIZARDS DOMAIN** Graphic adv
- G222 **PIXIE KINGDOM** (2 disks)
- G223 **ARCADIA** Breakout – very popular
- G224 **PORK A PORK** Stop the foxes
- G225 **MR BRICK** – Mario type
- G226 **RAID III** S.E.U. – wicked
- G227 **SERENE III**
- G228 **WOTSITSNAME** Quiz
- G229 **TETREN** – tetris
- G230 **HUMPTY & THE ALIEN INVADERS**
- G233 **OMEGA RACE** S.E.U. Great
- G234 **MENTAL IMAGES DISK 2** 3 games
- G262 **MR & MRS** Young platform – very good
- G263 **TANX** Great 98%
- G264 **DEFENDA** Arcade 95% Brilliant conversion
- G265 **GRAND PRIX SIMULATOR** Mega
- G266 **NUMBER FUMBLER** Number puzzle
- G267 **LEMMINGOIDS** Blast away
- G268 **GROWTH**
- G270 **PROJECT 1**
- G271 **LAZER ZONE**
- G272 **LEMMINGS PACK**
- G273 **THE MAZE GAME**
- G275 **APIDYA**
- G276 **SHOOT OUT**
- G277 **SUPER SKODA CHALLENGE**
- G278 **COMPUTER CONFLICT 2**
- G279 **ANTEP & SLOT CARS GAME** RPG
- G280 **TRICKY & THE TURN GAME**
- G283 **CARD GAMES 2**
- G285 **MIND GAMES 21**
- G286 **HYPER TEXT CHEATS**
- G287 **TECHNOBAN** Puzzle game
- G289 **THE BEAST** Mission to kill
- G290 **NADILOT RUN** Cat & dog chase
- G291 **OUCH** Clobber those moles
- G292 **ABSOLUTE ADV VOL ONE**
- G293 **CHAOS STRIKES BACK** Maps etc
- G294 **GAME TAMER v4.59** Latest
- G302 **AMOS CRICKET** Good cricket game
- G303 **ARAZNAX** 40 levels
- G304 **HELL ZONE** Elite
- G305 **FATAL MISSION** Good shoot 'em up
- G307 **CROSSMAZE/CRYPTO KING** Words
- G308 **INTERLOCK (AMOS)** 25 levels
- G309 **TANK ATTACK & MOUTHMAN**
- G311 **THRALLBOUND** Viking Adv Text
- G312 **BOUNCE AND BLAST** Platform
- G313 **SOCCER CARDS** Run the club
- G314 **CYBERNETIX** Fast action
- G315 **STAR MIX 2** 3 games
- G316 **FLAG CATCHER** Squares puzz
- G317 **OMEGA** Adv Moria type
- G318 **TOP SECRET** Excellent graphics platform
- G319 **MADONNA** Jigsaw
- G320 **ROBOCOP GOES TO IRAQ** seu
- G321 **BACK TO THE FUTURE III** Funny
- G322 **45 CHEATS** Codes etc
- G323 **TOMCAT** F15 shoot 'em up
- G324 **SUPER QUIZ**
- G325 **POWER PONG** Boing
- G326 **MAHJONG** Tiles
- G327 **MESTER** Cards
- G328 **STARFLEET** Shoot 'em up
- G329 **EXCALIBER** Shoot 'em up
- G330 **IMPERIUM ROMANIUM** Battle
- G331 **SQUAMBLE** Very Spacey!!
- G332 **JETMAN** Good shoot em up
- G333 **MECHFORCE v 3.71** Latest update
- G334 **PROPERTY MARKET GAME** Strategy
- G335 **ROLL ON & LAMER** Pushing
- G336 **HACKLITE v 1.0** Moria & Hack
- G338 **DIE FILTH** (2 disks) Brill like Swiv
- G339 **ULTIMATE HINT KIT v1.0**
- G340 **THE ACE CHEATS DISK 2** Lots
- G341 **BATTLE OF BRITAIN** Strategy
- G342 **THE SECRET OF MONKEY ISLAND** (Demo)
- G344 **ESCAPE II** Cheating games
- G345 **QUIZMASTER v 1.0** Test your knowledge
- G346 **NEBULA** Shoot-em-up fast action!
- G347 **ESCAPE** Into space!
- G348 **RUMMY** Excellent card game
- G349 **SPACE RESCUE** Super shoot 'em up
- G350 **INVADERS MARK II** Space invaders
- G371 **ERIC THE WARRIOR** Sim to Gauntlet
- G372 **KLAKTRIS** Tris type game
- G373 **CLI-TRIS** Latest TRIS
- G374 **DELUXE PACMAN**
- G375 **GALAGA 92** Shoot-em-up
- G376 **LIBERATOR GAME** Shoot-em-up
- G377 **ACK-ACK**
- G378 **CRAZY SUE 2** Latest platform
- G380 **LAST REFUGE** Invaders
- G381 **ZINGGER GAME** Karate game
- G385 **MORIA v5.4** Latest
- G386 **FRUIT MACHINE II** AMOS good
- G387 **OBLIVION** Defenda clone
- G388 **BOMB JACKY** Platform
- G390 **OTHELLO** Board game classic
- G391 **SOLITAIRE SAMPLER** Cards
- G392 **WILLY IN THE CASTLE** Excellent platform
- G393 **FRUIT SALAD** Platform. Reviewed in Format
- G394 **MARIO IN WONDERLAND** Brill clone – Mega!
- G396 **GIDDY** Great new platform game
- G398 **ATOMS** Weird!
- G399 **VECTA STORM** Brill new Tempest clone
- G400 **DIGITAL TETRIS**
- G402 **TETRIS PRO**
- G403 **SUPER PACMAN 92**
- G404 **BRIDGE**
- G405 **18th HOLE GOLF** (2 disks)
- G406 **SLIDE SQUARES** Puzzle
- G407 **THEY CAME FROM OUTER SPACE** Shoot em up
- G408 **SON OF BLAGGER** Excellent platform
- G409 **BRAINBOW** Addictive puzzle
- G410 **MYSTERY 2144 AD** Futuristic Murder adv.
- G411 **GUSH** Fab pipeline clone
- G412 **MEXICAN MASSACRE** Arcade action
- G413 **100 MEGA GAMES** (7 disks)
- G414 **BOX** Adventure game
- G415 **SLAMBALL** Future Management sim.
- G416 **MAYHEM2** Multi player manic maze.
- G417 **MUGSIE** Money making gangster adventure.
- G418 **ROULETTE + PUNTO 2** Good game (not 1.3)
- G419 **BLITZ GAMES** Worm, buzzbar, speed etc.
- G420 **SKID MARKS** Amazing driving game.
- G421 **ZOMBIE, APPOCOLIPS AND DEFENDER 2** Brill!
- G422 **BILLY BURGLAR** Just try to escape.
- G423 **OLYMPIAD** (Lemmings) (2 disks)
- G424 **CAVE FLIGHT** Dodge the obstacles.
- G425 **SERIOUS BACKGAMMON** Demo
- G426 **AIRPORT**
- G427 **EXIT-13** Puzzle
- G429 **BOW & ARROW**
- G430 **BLOAD RUNNER**
- G431 **POPEYE** C64 classic
- G432 **CASTLE NORRIS**
- G433 **THE RIGHT WAY** Lemmings
- G434 **PATIENCE** Cards
- G435 **PREMIERE PICKS** Football
- G436 **BOB N' FLOP**
- G437 **ROAD TO HELL** Racing brill!
- G438 **FIGHTING WARRIORS** Street Fighter 2 clone
- G439 **LEMMINGS 2** HD install
- G440 **NAPOLEONIC WARFARE** (2 Disks) Strategy
- G441 **TEXAS CHAINSAW MASSACRE**
- G443 **SCRABBLE**
- G444 **SMURF HUNT**
- G446 **THRUST DUEL** Gravity control
- G447 **EXORCISM** (2 Disks) Adv. & graphics
- G448 **CONQUEST & DOMINATION** Strategy war game
- G450 **DONKEY KONG** Platform
- G451 **OPERATION METEOR** 3D Graphics
- G452 **MR MEN OLYMPICS** (2 Disks)
- G453 **SUITCASE** (2 Disks) Adventure
- G454 **ESCAPE FROM DOOM** RPG type
- G455 **HIGH OCTANE** Overhead driving
- G456 **FATAL MISSION 2** Shoot em up
- G457 **KUNG FU CHARLIE** Platform beat em up
- G458 **GAMES GALORE 13**
- G459 **MENTAL IMAGES Vol 2**
- G460 **IRON CLADS** (2 disks) Naval battle Not 1200
- G461 **INTREPID** Rescue Dame form Evil
- G462 **QUIZ MASTER**
- G463 **QUIZ CHALLENGE**
- G464 **EYE OF BEHOLDER II** Cheats
- G465 **CHEATS** Many solutions
- G466 **PASSWORD PARADISE**
- G467 **MEGACHEATS v3.0**
- G468 **ELEVATION 2** Platform
- G469 **SCORCHED TANKS** Battle
- G470 **AMOS LOADSAMONEY** Fruit machine
- G471 **STAR TREKING TRIVIA** (2 disks)
- G472 **SUPER TOMCAT** Shoot 'em up
- G475 **NOSTROMO CHEATS & SOLVES**
- G476 **ORC ATTACK**
- G477 **TANK HUNTER**
- G478 **RAID 4**
- G479 **MEGABALL 2**
- G480 **MEGABALL 3**
- G481 **ROACH MOTEL** - Kill the roaches! Platform
- G482 **ASOKOBAN v1.1**
- G483 **BILLIARD GAMES** 3 games. Shareware
- G484 **BLOODBALL** Crillon type
- G485 **CRITTUR CAULDRON** Life simulation
- G486 **DR WHO**
- G487 **DUNE 3** (2 disks) Worm race game
- G488 **GALAXY MAPPER**
- G489 **JB POKER** Cards
- G490 **MF HQD** use with Mechforce
- G491 **MR BROWNSTONE** B/dash clone
- G492 **NEW WORLD** (2 disks)
- G493 **NO MANS LAND** 2 players
- G494 **PARADROID** action like C64
- G495 **PROKER** Card variation
- G496 **REUDA** Wheel of fortune
- G497 **SNACKMAN** Pacman clone
- G498 **ANGBAND** (3 disks) Moria type
- G499 **BLEED 1** Cool adventure
- G500 **BLEED 2** Next part
- G501 **STARBASE 13** Monkey Island clone
- G502 **TITANIC CHEATS**
- G503 **ENTITY** Zap the nasties
- G504 **HOTBLOX** 2 player Tetris
- G505 **NUMTRIS** Number Tetris
- G506 **GAME TAMER V4.59** Latest cheats
- G507 **JELLYQUEST** 3D puzzle game
- G508 **ESCAPE FROM DOOM** RPG adv.
- G509 **MICROMARKET v1.2** Buy and sell shares
- G510 **ZYRAD** Overhead collecting game

BOULDERDASH

Most titles now work on A500/A500+/A600/A1200/A4000

- BD 1 - FLASCHBIER I
- BD 2 - FLASCHBIER II 1.3 only
- BD 3 - BOULDERDASH COLLECTION I
- BD 4 - BOULDERDASH COLLECTION II
- BD 5 - BOULDERDASH COLLECTION III
- BD 6 - EMERALD MINE BOULDERDASH 1/2/3/4/+ Construction Kit
- BD 7 - EMERALD EAT MINE
- BD 8 - EMERALD MINE TOOL ED v 4 (2 disks)
- BD 9 - EMERALD MINES CAVE EDITOR
- BD 10 - EMERALD PRO
- BD 11 - EMERALD PRO 3
- BD 12 - EMERALD PRO 4
- BD 13 - EMERALD PRO 4 EXTRA
- BD 14 - LAZERS EMERALD MINE 2
- BD 15 - EMERALD MINE TUTORIAL - 2nd Pt
- BD 16 - EMERALD MINES 2 1.3 only
- BD 17 - EMERALD MINES 3
- BD 18 - EMERALD MINES 4
- BD 19 - EMERALD MINES 10
- BD 20 - EMERALD MINES 11
- BD 21 - EMERALD MINES 12
- BD 22 - EMERALD MINES 13
- BD 23 - EMERALD MINES 14
- BD 24 - EMERALD MINES 15
- BD 25 - EMERALD MINES 18
- BD 27 - EMERALD RUNNER MINE 1
- BD 28 - EMERALD RUNNER MINE 2
- BD 29 - EMERALD EATER
- BD 30 - THE NEW EMERALD MINES 1.3 only
- BD 31 - RECYCLED EMERALD MINES 1
- BD 32 - RECYCLED EMERALD MINES 2
- BD 33 - EMERALD HEAD
- BD 34 - DANMARK II
- BD 35 - MARATHON MINES 1
- BD 36 - MARATHON MINES 2
- BD 37 - MARATHON MINES 3
- BD 38 - BOND MINES 1
- BD 39 - BOND MINES 6
- BD 40 - RUPPLE MINES
- BD 41 - EASY RUPPLE MINES
- BD 42 - RUPPLE MINES EDITOR
- BD 43 - WATER MINES
- BD 44 - ADVENTURES OF MR B - Part 2
- BD 45 - EAT MINES 1
- BD 46 - EAT MINES 2
- BD 47 - EAT MINES 3
- BD 48 - EAT MINES 10
- BD 49 - NO ONE MINES 1
- BD 50 - NO ONE MINES 2
- BD 51 - NO ONE MINES 3
- BD 52 - NO ONE MINES 5
- BD 53 - NO ONE MINES 6
- BD 54 - NO ONE MINES 7
- BD 55 - NO ONE MINES 8
- BD 56 - NO ONE MINES 9
- BD 57 - NO ONE MINES 10
- BD 58 - SPUD MINES 3
- BD 59 - ENEMY MINES 1.3 only
- BD 60 - BOBBYDASH
- BD 61 - DENMINE 1
- BD 62 - LADYBIRD MINE - KIDS
- BD 63 - INTO THE FUTURE FIELDS
- BD 64 - INTO THE FRUSTY FIELDS
- BD 65 - INTO THE COLD CAVES
- BD 66 - LABAN MINE
- BD 67 - FUN MINE 1 1.3 only
- BD 68 - ACE MINE 1
- BD 69 - SUPER AMIDASH
- BD 70 - ROCKNUTS 1 1.3 only
- BD 72 - BOULDERDASH C64
- BD 73 - PROFESSIONAL BOULDERDASH 1
- BD 74 - PROFESSIONAL BOULDERDASH 2
- BD 75 - FIRST CLASS BOULDERDASH 1.3 only
- BD 76 - BOULDERDASH CONSTRUCTION KIT 1.3 only
- BD 77 - OFFICIAL BOULDERDASH
- BD 78 - MEGA BOULDERDASH 1.3 only
- BD 79 - STONEAGE
- BD 79A- STONEAGE (PLUS COMPATIBLE)
- BD 80 - LITTLE BOULDER
- BD 81 - BOULDERS GROVE + EDITOR
- BD 82 - CAVE RUNNER
- BD 83 - DENMINE 2
- BD 84 - DENMINE 3
- BD 85 - DENMINE 4
- BD 86 - DENMINE 5
- BD 87 - DENMINE 6
- BD 88 - EMERALD EATER 1
- BD 89 - EMERALD EATER 2 1.3 only
- BD 90 - EMERALD MINE 5
- BD 91 - EMERALD MINE 6
- BD 92 - EMERALD MINE 7
- BD 93 - EMERALD MINE 8
- BD 94 - EMERALD MINE 11
- BD 95 - EMERALD MINE 16
- BD 96 - EMERALD MINE 17
- BD 97 - NO ONE MINE 4
- BD 98 - NO ONE MINE 12
- BD 99 - NO ONE MINE 13
- BD 100 - NO ONE MINE 14
- BD 101 - NO ONE MINE 15
- BD 102 - NO ONE MINE 16
- BD 103 - SUPER EMERALD MINE LAZER
- BD 104 - ADVENTURE OF MR B - Part 1
- BD 105 - RUNNER MINE 3
- BD 106 - RUNNER MINE 4
- BD 107 - BOND MINE 2
- BD 108 - BOND MINE 3
- BD 109 - BOND MINE 4
- BD 110 - BOND MINE 5
- BD 111 - BOND MINE 7.5
- BD 112 - BOND MINE 8
- BD 113 - BOND MINE 9
- BD 114 - BOND MINE 11
- BD 115 - RABOULDIX
- BD 116 - RUPPLE MINE 5
- BD 117 - RUPPLE MINE 3
- BD 118 - RUPPLE MINE 2
- BD 119 - RUPPLE MINE 4
- BD 120 - BLUE DIAMONDS 4
- BD 121 - INTO THE FRUSTY MINES
- BD 122 - SNELMINE 1
- BD 123 - OZ MINE 1
- BD 124 - OZ MINE 2
- BD 125 - OZ MINE 3
- BD 126 - BONDMINE 10
- BD 127 - DANMARK 1
- BD 128 - EXPERT MINE 1
- BD 129 - EXPERT MINE 2
- BD 130 - ROCKNUTS 2 1.3 only
- BD 131 - EMERALD CRUNCHER
- BD 132 - EMERALD CRUNCHER 1
- BD 133 - JUNIOR ICE MINE 2
- BD 134 - RECYCLED MINES III
- BD 135 - EMERALD FREAK
- BD 136 - FREAK MINE 1
- BD 137 - FREAK MINE 2
- BD 138 - EXCEPTION 1
- BD 139 - JUNIOR 1
- BD 140 - DIAMOND MINE 1
- BD 141 - EMERALD FREAK II
- BD 142 - RUNNER MINE 5
- BD 143 - BUGMINE 1
- BD 144 - BUGMINE 2
- BD 145 - BUGMINE 3
- BD 146 - VENOM 1
- BD 147 - VENOM 2
- BD 148 - INTO THE HISTORY HOLES
- BD 149 - NORTHLIGHT MINE 1
- BD 150 - EMERALD MINE TUTORIAL
- BD 151 - EMERALD MINE TUTORIAL 3
- BD 152 - EMERALD MINE FINAL 1.3 only
- BD 153 - NEW EMERALD MINES 1.3 only

BOULDERDASH PACKS:
Any 10 = £12.50 Any 20 = £20.00
Any 50 = £47.50 Or Singly at PD Prices

ASSASSINS COMPILATION GAMES

Most now work on A500/A500+/A600/A1200

- ASI 21 Zeus, Tettrix, Battlements & Dragontiles
- ASI 23 Quick Money, BIP, Interferon, Arcadia
- ASI 24 Revenge of Camels, Dux Croak, 3dmaze etc!
- ASI 29 DOG, Rome, Nova, B-Bal, Atax, Quadrix
- ASI 30 Bounce & Blast, Total Fire Tank Attack!
- ASI 37 Klaktris, Ghostship, Paccer etc!
- ASI 38 One on One, Baldy, Skyflyer 2, Transplant!
- ASI 39 Lots of Card Games on this disk!
- ASI 48 Point to Point, Psycho Santa etc!
- ASI 49 Deathbringer in Space Sue 1+2 etc!
- ASI 71 Numerix, Battleships & Vs Tanks!
- ASI 72 Escape pre, Boulderdash (not 1200) Carl
- ASI 91 Roton, Matrix & Spectrum!
- ASI 92 Bill, Oblidox & Solitaire Sampler!
- ASI 93 Smash Bang Wallop, Mr Munk & Alien Bash!
- ASI 94 Super Skoda Challenge, Merchamoid & Giddy!
- ASI 95 Prem Pics, Tangle, Bop & Flop & Super League Man
- ASI 96 Dungeon Flipper, B'gam Tumble Tots Rasterbike
- ASI 97 Bunnyblast, Mutants from Mars, New Stubb City!
- ASI 98 Skychase, The Phone Company & Nestor Cards!
- ASI 99 Gribit, Paranemmot, Space Wars & Org!
- ASI 100 Bloodrunner, Patience & Monaco!
- ASI 101 Meltdown, Paragon Boomerang & Rothello!
- ASI 102 Fruit Salad, Rebound & Pacsim!
- ASI 103 The Lost Occrest, Wacky Wabbit & Megarace!
- ASI 104 Wooden Ball, Operation Meteor & Pork A Pork!
- ASI 105 Particle Man, Rummy & Desert Defender!
- ASI 106 Simon, Cosmoroids II, Willy Worm & Micro Market!
- ASI 107 Serene III, 4 Row 3D, Equilog & Yacht C!
- ASI 108 Strikeball, Ringwar, Four in a Row & Obsess!
- ASI 109 Psyco Blast, King High, D/L Hamburg, Thrallbound
- ASI 110 Space Rescue, Tiles Zerg & Huskerou!
- ASI 111 Karate Worm II, Stax & Billy Dragon!
- ASI 112 Thunderton II, Aliens, Tron & Step 2!
- ASI 113 White Rabbits Preview, Trek Trivia & Popeye!
- ASI 114 International Cricket, Pre Insectoids II & Yum Yum!
- ASI 115 Star Trek Shoot Up, Egypt Run, Slime Line & Shark!
- ASI 116 Blue Diamonds 4, Tsch & Sorry!
- ASI 117 Air Warrior, Triple Yachtzee & Youpi!
- ASI 118 Zombies, Armymines 14 & The Last Tetris!
- ASI 119 Robouldix, Speed (cards) & Trik Trak (B'gammon)!
- ASI 121 Chainsaw Massacre, Brainbow & Worm!
- ASI 122 Boulderdash Coll., Project Buzzbars & Xenon III
- ASI 123 Artilleros II, Lamerbug & Yahtzee!
- ASI 124 Mr & Mrs, Elevation II, Haser Backgammon!
- ASI 125 Namegame, Marbleslide & Snake!
- ASI 126 Short Out, Kynaston Kid & Dodge Ems!
- ASI 127 Shanghai 93, Lazer Zone & Oxo!
- ASI 128 Space Invasion, Deluxe Pacman 1.4 & Solarys Wars
- ASI 129 Boulderdash Royal, Trax & Trax Editor!
- ASI 130 Chain Reaction, Batman & Uggo!
- ASI 131 Tykkipeli, Tetron & Skeet Shooting!
- ASI 132 Firefly, Quantum & Pac Mac!
- ASI 133 2nyx, Proker and Syzygy
- ASI 134 Cross Circuit, Fwuff & Circuit Wars!
- ASI 135 Gammon 1.3, Ack-Ack, Pipeline 3 & Tetrix!
- ASI 136 Hot Blox, Super Pong & Sniffburk!
- ASI 137 Blockster, Escapade & Squigs!
- ASI 138 Galactoid, Scorched Tanks & Air Hockey!
- ASI 139 The Big Game, Bat Dog & Amiganoid
- ASI 140 Fatal Mission II, Chronic Hedgehog Megaworm
- ASI 141 Black Dawn, Reversi II & Gold Rusher!
- ASI 143 Intense, Xatoms & Pontoon (cards)
- ASI 144 Brain Shave, Nibbly Nibble, Rejection & Cube
- ASI 145 Puzzword, Kung Fu Charlie & Super Pong!
- ASI 146 Entity, Battlecars II, Amastermind & C Solitaire
- ASI 147 B'gam D Luxe, Tuts Tomb, Mancals & Parattack!
- ASI 148 Pollymort, Nostalgium, Megamind
- ASI 149 Glodrick, Web II, Eric Watch Your Step
- ASI 150 D-Solve, Dot2Dot, Tactik Tank
- ASI 151 Krillian Incident, Caffeine Free Diet, Zyrad
- ASI 152 Klawz, Dictator 2, Big Will & Sticky Troll!
- ASI 153 Exit 13, Beetle
- ASI 154 Wackman, Bob's Garden, Kaboom
- ASI 155 Megablock, Digger, Crazy Clock
- ASI 156 Darts, Quackers & Karate Champ
- ASI 158 Scrabble, Toado & V-Chess 2
- ASI 159 Drivin Mainiacs, Smidge, Colour Change
- ASI 160 Prof. Bingo, Elektrek
- ASI 161 Galadria, Space Inv. 2, Safrondream
- ASI 162 Sports Challenge, Moria 5.4, USA 94
- ASI 163 Cards, harp, plait, queens
- ASI 164 Ataks, DIY 2
- ASI 165 Depth Charge, Toobz, Interface Robots
- ASI 166 Confuzion, Fleuch 2, Hyperdrive
- ASI 167 Megasquad, Zardoz, Rags to Riches
- ASI 168 Mindrunner, Drelbs, Paracheese, Dynamite Warriors
- ASI 169 Pee Bee, Turbo Hockey, Brain Damage
- ASI 171 Galaga De Luxe, Christmastime, Amosteroid
- ASI 172 Scorched Tanks, Doza Demo, Isolation
- ASI 173 Ork Attack, Task Force, Pop Quiz
- ASI 174 Meto Grasp, Statix, Kaselago
- ASI 175 Mastrix Blaster, Ultimate Quiz, Dotz
- ASI 176 Sports Chall 1, Incinerator Demo, Sports Chall 2
- ASI 177 Gorf, Checkers Conquest, Mucus
- ASI 178 40 Thiefs, Cookie, Oxo 3D
- ASI 179 Super Obliteration, Harrier, Raise the Titanic
- ASI 180 Scorched Tanks, Crystal Caverns, Warheads
- ASI 181 Mutant Penguin, Infiltrator, Rox
- ASI 182 Dama, Colonial Conquest, Soko-Ban
- ASI 183 Operation Firestorm, Quasi, Imperial
- ASI 184 Tanx-n-Stuff, Picture Puzzle, 15 Puzzle
- ASI 185 Metal Motion, Fatal Mission III, Wohle
- ASI 186 Jelly Quest, Seahaven Towers, Quinzee
- ASI 187 Snackman, Thunderstorm, Secret of Arcturus
- ASI 188 Tricky, Fortress, Ping Pong
- ASI 189 Ultraball, Godzilla, Amigawars
- ASI 190 Gravity Force II, Dogfight, Blaster

ALL ASSASSINS IN STOCK

DEMOS

- M150 **PINK FLOYD - THE WALL** (6 disks, 2 drives, 1.3 only)
- M183 **SANITY - YESTERDAY** Brill!
- D304 **UTOPIA TOTAL CONFUSION**
- D310 **WACKO METAPHORPH ANIM** *
- D311 **ROBOCOP/RUNNING MAN ANIM** *
- D312 **KEFRENS DESERT DREAM** (2 disks)
- D313 **JESUS ON E'S** (2 disks) 20 mins WOW!
- D317 **TECHNOLOGICAL DEATH** Mega!
- D318 **SPACE BALLS** Brill!
- D319 **TEKNO-A-TAK MEGA RAVE**
- D321 **TROJAN TECKNO TRACKS**
- D322 **DANCE TRASH** (2 disks) Rave
- D324 **SILENTS DEMON DOWNLOAD** (2 disks)
- D330 **SILENTS EXPOSE** (2 disks)
- D331 **POSEIDON CEREBAL LOBOTOMY** (not 1.3)
- D333 **STONEARTS ATMOSPHERE** Great!
- D334 **KEFRENS DANE** Short & Sweet!
- D336 **SPACEBALLS MOBILE**
- D342 **MAYDAY RESISTANCE** Rave & Strobes
- D345 **SANITY WORLD OF COMMODORE**
- D347 **LEMON RINK A DINK** (not 1200) Classy
- D348 **ZYNEX 3** (2 disks) Superb music

CLR LICENCEWARE

EDUCATION

- CLE01 **T.C. DINOSAURS** (2 disks) Hyperbook £3.95
- CLE03 **T.C. SOLAR SYSTEM** (3 disks) Info from NASA etc. £5.95
- CLE05 **ACHORD** Learn guitar £3.95
- CLE10 **BASICALLY AMIGA** (3 disks) Get to know your machine £5.95
- CLE15 **FAST FRET** Learn scales on guitar £3.95
- CLE28 **FUN WITH CUBBY** 8 progs for kids £3.95
- CLE31 **UNDERSTANDING AMOS** (2 disks) £4.95
- CLE46 **BASIC HUMAN ANATOMY** Covers brain, blood, nervous system etc £3.95
- CLE51 **PAINT PASTE & DRAW** Colouring book £3.95

UTILITIES

- CLU03 **TYPING TUTOR** Excellent; touch type £3.95
- CLU09 **PLAY & RAVE 2** Music module linker £3.95
- CLU10 **POWER ACCOUNTS** Keep track of expenses £3.95
- CLU11 **CALC v1.3** Spreadsheet £3.95
- CLU13 **DATOS** Powerful database £3.95
- CLU15 **EPOCH** Calendar system £3.95
- CLU21 **INVOICE MASTER** £3.95
- CLU28 **CREATIVE ADVENTURE TOOL KIT** Make adventure games £3.95
- CLU32 **POWERTEXT 2** Wordprocessor £3.95
- CLU33 **AM TUITION** Create WB3 type progs £3.95
- CLU36 **ILLINOIS PROFESSIONAL** Fab labelling system £3.95
- CLU37 **FIND IT** Super directory £3.95

GAMES

- CLG08 **DRAGON TILES** Tile puzzles £3.95
- CLG14 **SONIC SMARTIEHEAD** Platform £3.95
- CLG17 **IMBRIUM DAY OF RECKONING** Graphic adventure £3.95
- CLG28 **TIME RIFT** Platform adv. £3.95
- CLG35 **OG!!** Cavemen £3.95
- CLG41 **FI RACER** 3D Formula 1 car racing £3.95
- CLG42 **CRYSTAL SKULL** 3D role play D+D type £3.95
- CLG44 **VIKING SAGA** Graphical strategy £3.95
- CLG48 **THE LOST PRINCE** Graphic adv. £3.95
- CLG51 **TEN PIN BOWLING** £3.95

WE STOCK ALL CLR TITLES

DELTRAX PD (AC),
36 Bodelwyddan Ave,
Old Colwyn,
Clwyd LL29 9NP

DISK PRICES:
1-2 Disks = £2.00 each, 3-15 Disks = £1.50 each
16-24 Disks = £1.25 each, 25+ Disks = £1.00 each

Overseas orders welcome payable in sterling please.

Catalogue disk £1.00. Fast, reliable friendly service.
Make cheques/postal orders payable to "DELTRAX PD"

POSTAGE & PACKING:
UK = 60p per order;
Europe = +20p per disk; R.O.W. = +40p per disk

Note: Prices are per disk and not per set

DEPT (AC) CLIP & POST

Name ....

Address ....

....

Postcode .... Tel. ....

Picture in

Gary Whitely continues his home video escapades by showing you how to mix in the graphics

Last month we looked at the Amiga and some of the software tools needed for desktop video production. Now our attention turns to those peripherals which are essential for getting images in and out of your Amiga.

I'm fully aware that the Amiga 1200 we are taking as our example machine has both composite and RF video outputs available, and pretty good they are too.

If you simply want to record graphics from your Amiga to video tape – or just watch them on TV – then there's no reason to start worrying about buying a genlock, because you obviously don't need one.

It's when you want to start putting computer graphics over video images that you should start thinking about genlocks and, short of investing in a pretty heavy-duty vision mixer and timebase corrector (TBC) setup with good keying facilities, there's no easy way to overlay Amiga graphics onto video without one.

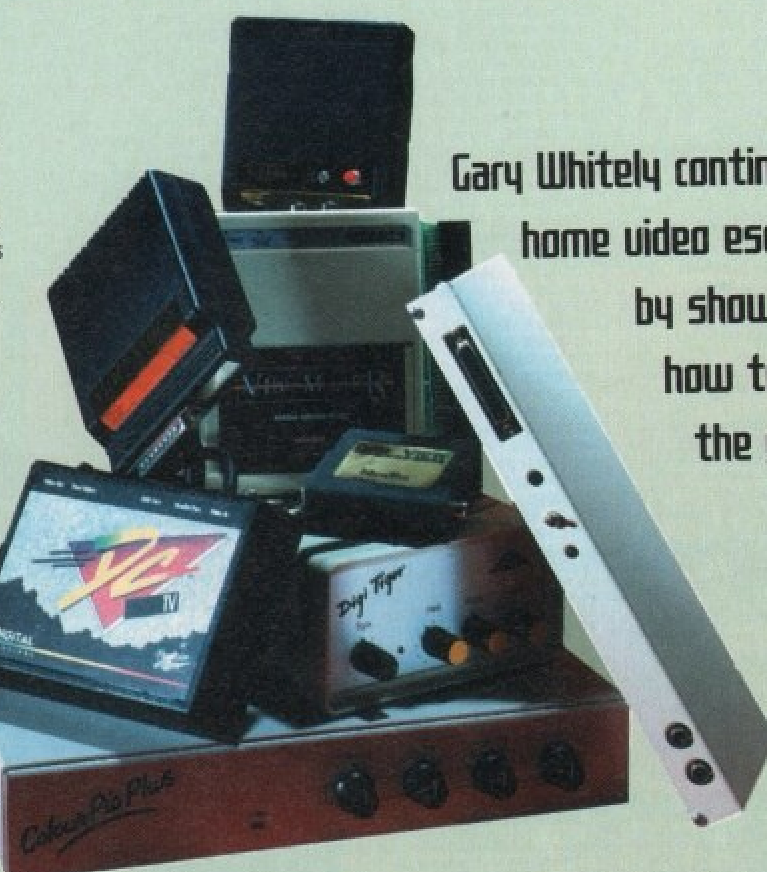
In order to mix graphics with video it is essential that the timing of the Amiga's video display is matched exactly to that of the incoming video signal.

This is a major part of a genlock's (short for Generate Lock) function, and works by extracting timing information from the video signal and then sending corresponding pulses to the Amiga via its external clock input in order to synchronise the computer to the video signal.

Many better-constructed genlocks don't necessarily require a video input to be present (a genlock can also be used to 'encode' the Amiga's RGB output into a signal which can be recorded by a VCR) because they have what is known as a 'free run' mode.

However, it is usually better to feed the genlock with video so that it really does get the proper timing signals. Cheaper, and less well-designed genlocks require a video signal to be constantly present – which can be a pain if you don't otherwise need to have one available.

Once the Amiga is locked to the video signal the next operation a genlock performs is to overlay the Amiga's graphics onto the incoming video images.



KEY COLOUR

This is done by "keying" – in other words by replacing certain areas of the Amiga graphics with video images – usually by using a designated colour as the key colour.

The most commonly-used key colour is palette Colour Zero – the first colour in any Amiga colour palette. This is the default background colour in Deluxe Paint and most other graphics and presentation programs, and is often black or dark blue (though the actual hue doesn't matter in the least).

A genlock reads the information coming out of the Amiga's Zero Detect line, and every time it finds that a pixel contains Colour Zero it quickly switches the output signal to the video image, rather than the non-Colour Zero Amiga graphic which would otherwise be output from the genlock.

This switching occurs very rapidly as the complete video screen is scanned from top to bottom every 1/25th of a second, and results in the Amiga graphic being keyed (or, more correctly, key switched) over the video images. More sophisticated genlock effects are also possible, and circuitry can be incorporated to produce Inverse Keying (video only shows where non-Colour Zero graphics occur), user-controlled fading between graphics and video, and also the ability to select palette colours other than Colour Zero to be the key colour.

Some genlocks even incorporate simple wipe patterns, but to my mind these are mostly relatively expensive gimmicks which have little or no real artistic value.

One important aspect of choosing a genlock is to ensure that it is compatible with both your Amiga and your video equipment. As far as the A1200 goes it is only possible to use external-mounting genlocks with it, ruling out those models which mount internally into the box-shaped Amigas – the 1500/2000/3000/4000 ranges.

If you have S-VHS or Video 8 equipment you should obtain a genlock with Y/C connections in order to obtain the best possible quality. If not you'll probably end up with a composite-only one which will tend to degrade your video images, making them muddier and hence somewhat less viewable.

I guess there have been times when you've wondered how you can capture an image and then use it in an Amiga graphics or animation program.

In fact, there are a couple of different ways of doing this – namely video digitising

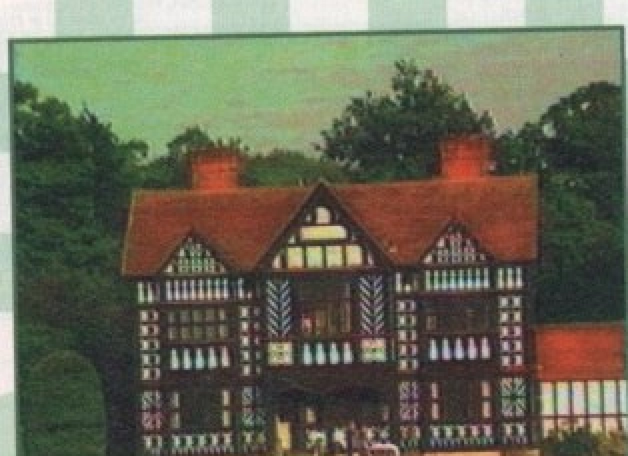
Making the connection

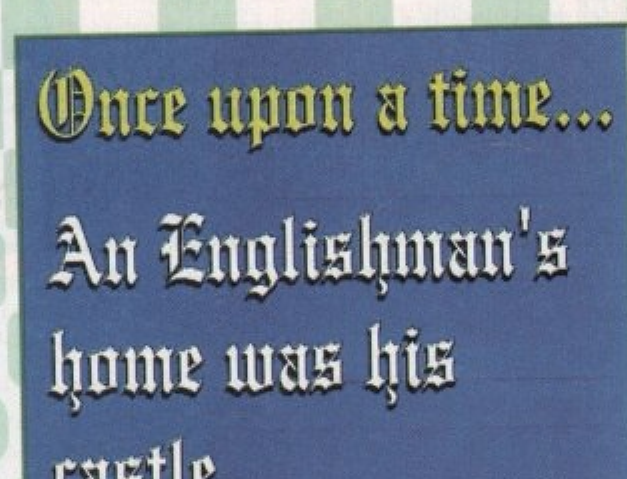
Connecting up a genlock is easy, but you need some extra video equipment to use one. Obviously the kind of genlock you buy depends as much on what you have to spend as the quality and features you wish to obtain.

Of the cheaper, composite video genlocks, the only one I would recommend for less than £100 would be Lola Electronic's L500 MiniGEN. If you need something a bit more flexible take a look at the £149 L100 MiniPRO (again from Lola).

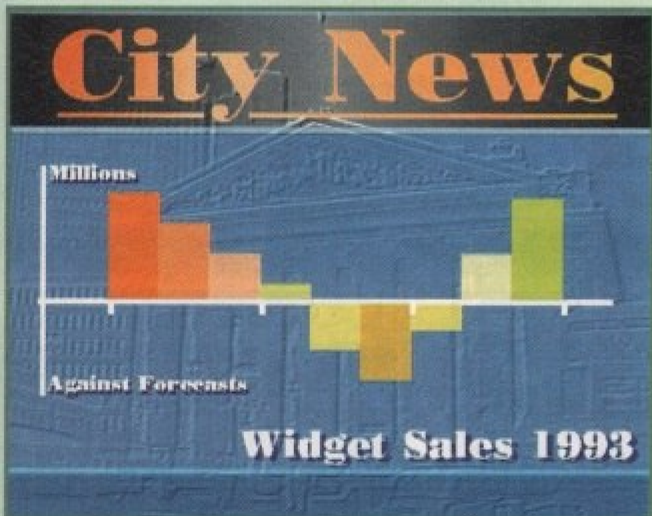
I know that the RocGen genlocks are quite popular, but I wouldn't personally recommend them as I've always found their quality and operation to be inferior to comparably-priced (or sometimes cheaper!) devices.

As far as Y/C genlocks go, check out GVP's G-Lock (around £290) or Electronic Design's Y/C Genlock (£399), both of which offer pretty good value for money nowadays. Of course there are also other models available.

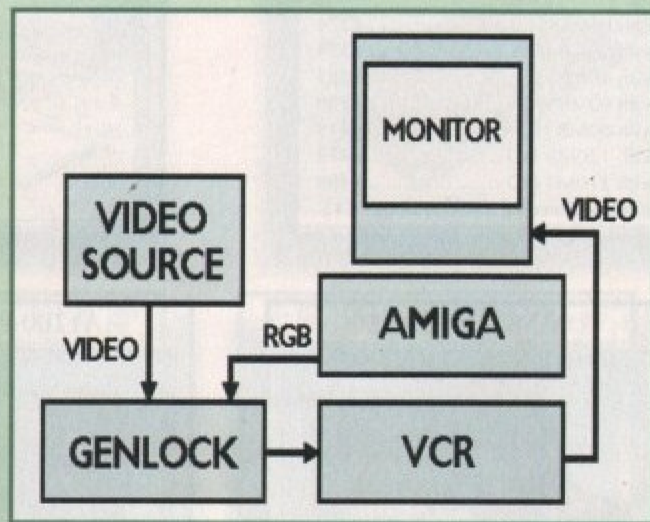




and picture out



Grabbed images can be used in graphics, animation, 3D, presentations and even DTP work. Here a grabbed image has been embossed and incorporated as a background.



Connecting a digitiser is no problem. But you do need a good video source, particularly when using slow scan digitisers.

The costs

Last month we costed a basic Amiga setup as follows: Amiga 1200, £290; RGB monitor (e.g. Commodore1084S), £200; second disk drive, £50. Total around £540.

Additions this month: Genlock – from £70 to around £400; Digitiser – from £70 to around £400.

Next month we'll be adding some video equipment.

Home video Part 2



and image scanning. As we are particularly interested in capturing from video I'll just mention that scanning involves reading a printed image with a device somewhat akin to a reversed photocopier which converts the image into digital data that a computer can understand.

A good flat-bed scanner, along with the software to drive it, can easily cost over £800, so scanners aren't likely to be a popular item amongst stony broke video makers.

DIGITISERS

On the other hand, while quite cheap, hand-scanners are unlikely to provide either the image size or quality needed for video work, so the only viable alternative is a video digitiser.

Like genlocks, digitisers come in a range of flavours and prices. The cheapest ones start at well under £100 and offer reasonable-looking grabbing (as it is often known), but at the expense of quality and speed – and they require a video deck with a rock-solid freeze-frame.

However, not everyone needs top-quality images and with an AGA machine such as the A1200 the results can still look excellent. So if your budget is tight, and you want Y/C compatibility, consider Rombo's Vidi Amiga 12 as a good bet.

If you want better quality (and you should think about adding more RAM to your A1200 if that's the case – then a fast scanning, high-quality digitiser should do the trick.

Fast scan digitisers can grab a whole frame of video in real-time because of special memory incorporated into them, whereas slow scan models only grab a chunk at a time.

Rombo offers two fast scan models – the Vidi Amiga 12RT (£199) and the 24RT (£299), the main difference being that the 12RT cannot grab in interlaced modes.

Again, with an A1200 this probably doesn't matter much and you'll save £100 by buying the 12RT. There is also an external version of MacroSystem's VLab card (the VLab PAR – £382) which costs a bit more than the Vidi Amiga 24RT but doesn't have a Y/C input.

The better digitisers can also grab sequences of frames, though not at full speed, so if you want to do effects such as automatic time lapse then these are for you.

The Vidi software includes image processing and format conversion routines to help knock the images into the size and look you require. Once you've grabbed an image you can incorporate it into any of your graphics work, provided it is saved in a suitable format.

All the digitisers mentioned above can save IFF files as standard, so this shouldn't be a problem. You could import the image into DPaint and incorporate it into an anim (though this will most likely require extra RAM), or use it as the basis for a video title screen.

If you have a program like ADORage you can make a neat animation by chopping the image into little bits and reassembling them automatically after putting them through some very fancy moves.

Captured images can also be used in desktop presentations and DTP (maybe you'll want to print some videocassette sleeve inserts for your finished tape), as well as output through your Amiga/genlock setup back to tape as part of your video production.

Well that's all for this month. Next I'll be looking at what you need to get started on the home video trail.

● Gary Whiteley can be contacted by e-mail on drgaz@cix.compulink.co.uk.



Typically, a genlock allows you to overlay graphics onto video images, as illustrated here. A text image is mixed with a video image, resulting in text on video!

Jargon buster

Composite Video: a 'single wire' video signal containing all the necessary brightness, colour and sync information in one combined signal.

Pixel: the smallest 'building block' of a computer graphics screen. Pixel size varies according to the screen's resolution.

RF Video: a combined video and audio signal such as that which arrives at your TV through the aerial cable or from the modulator output of your Amiga.

RGB Video: the Amiga's internal video format, consisting of the three colour components that make up an image. RGB has to be converted (encoded) into standard video signals by either a genlock or encoder for use in the outside world.

Y/C Video: a superior quality video signal where the colour and brightness information are kept separated to provide better-looking pictures. As used in S-VHS and Video 8 systems.

2 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582 491949 • 0582

The Centre of Te

WTS Electronics Ltd, Chaul End Lane, Luton, Bedford

AMIGA 1200 PACKS



32-bit 68020 full power
Two joysticks & mouse
Free paint package software
Mouse Mat

A1200 Standalone	**£274**
A1200 with 20MB HD	**£354**
A1200 with 40MB HD	**£383**
A1200 with 60MB HD	**£399**
A1200 with 80MB HD	**£419**
A1200 with 120MB HD	**£473**
A1200 with 210MB HD	**£499**

Combat/Innovations pack add to above **£45**

AMIGA 4000 PACKS



AGA chip set
68030/40 processor
Co-processor option
2MB/4MB RAM

A4000 030 with 0MB HD & 4MB	**£829**
A4000 030 with 120MB HD & 4MB	**£949**
A4000 030 with 250MB HD & 4MB	**£999**
A4000 030 with 540MB HD & 4MB	**£1199**

A1200/A600 HARD DRIVES



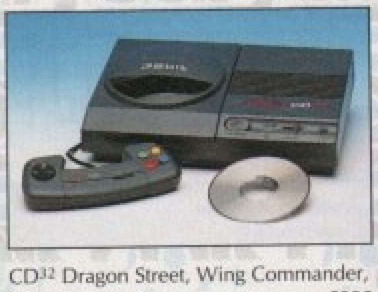
Easy to install 2.5" upgrade kits
Full instructions and cables where necessary
All drives supplied with formatting instructions and software
Free fitting available - phone for details

20MB HD upgrade kit	**£85**
40MB HD upgrade kit	**£109**
60MB HD upgrade kit	**£128**
85MB HD upgrade kit	**£148**
120MB HD upgrade kit	**£199**
210MB HD upgrade kit	**£229**

HIGH CAPACITY HD'S

These prices include collection, delivery and free fitting, all guaranteed 3.5" drives. Phone for details.
250MB **£199** 340MB **£259** 540MB **£379**

AMIGA CD-32



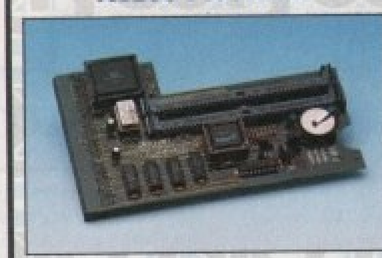
CD³² Dragon Street, Wing Commander, OSCA, Diggers **£239**
New full motion video, allows video CD's to be played on the CD³² **£197**
Lead for CD³² to 1085 monitor **£14.99**

AMIGA 600

A600 Wierd, Wild & Wicked pack
Includes Deluxe Paint 3, Microprose Grand Prix, Silly Putty, Pushover and further free software

A600 W,W & W	**£196**
A600 W,W & W with 20MB HD	**£276**
A600 W,W & W with 80MB HD	**£359**
A600 W,W & W + 1.3 ROM	**£218**

A1200 PRORAM



High quality memory expansion
Easy to fit full instructions
Co-processor option
ProRAM 1200 simply slots into the expansion port under the trap door

ProRAM 1200 2MB	**£136**
ProRAM 1200 4MB	**£189**
ProRAM 1200 8MB	**£379**

ProRAM PCMCIA A600/A1200

2MB	**£109**
4MB	**£159**
ProRAM 1MB A600	**£32**
20MHz FPU	**£24**
33MHz FPU	**£59**
40MHz FPU	**£79**
50MHz FPU	**£149**

MONITORS



14" Hi-Res colour display
Complete with cable
Includes integral stand
Full UK warranty

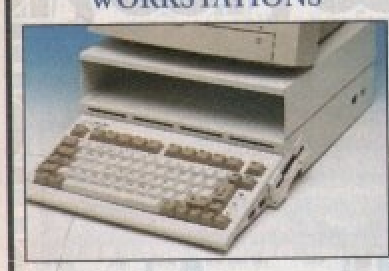
Sharp DV 3750 monitor/TV	**£164**
Philips 14155A monitor/TV	**£184**
Micro Vitec .28 1438 inc. stereo	**£287**
A1200 SVGA Monitor	**£228**

(display hi-productivity modes, not default)

Commodore 1940	**£284**
Commodore 1942	**£334**
Tilt & Swivel stand	**£9**
Monitor dust cover	**£4.99**
1.5m monitor ext. cable	**£14.99**

(Simply add £28 for workstation of your choice when purchasing the above)

WORKSTATIONS

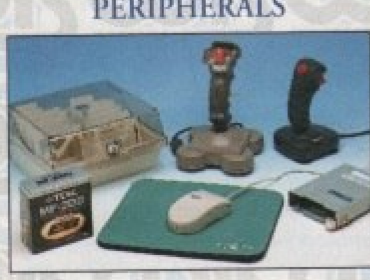


Ergonomically sound
Facilitates up to three external floppy drives
Made in the UK
Strong and robust
Aesthetically pleasing
Keep your desk neat and tidy
Supplied complete and assembled with free mouse mat

A500 Workstation	**£29**
A600 Workstation	**£26**
A1200 Workstation	**£29**
Workstation coverall dust covers	**£7**
Mouse House	**£4**

Only **£20** when bought with an A1200

PERIPHERALS



100 Capacity lockable disk box	**£5.99**
Squick mouse	**£13.99**
Mouse mat	**£1.99**
TDK high quality DSD (10) disks	**£7.99**
Computer Mall DSD (10) disks	**£6**
Megagrip 2 joystick	**£13.99**
Apache joystick	**£6.99**
Python joystick	**£9.99**
200 Capacity stackable disk drawer	**£12.00**
Zi-Fy Pro Speakers	**£53**
A500/A600/A1200 dust covers	**£4.99**
A500 modulator	**£36**
Amiga First step book	**£14.99**
4-Way mains extension block	**£7.99**
TV RF lead	**£4.99**
A500 internal replacement drive	**£39**

SCANNERS



Allows image processing in a useful and unique fashion
Comes complete with manual
One of the fastest growing applications for home and professional users
High specification coupled with cost effective pricing
64 greyscales 100-400DPI
Fully compatible with Deluxe Paint 4
Advanced software

Power Scanner 4	**£116**
Power Scanner colour 4	**£229**
Epson GT-6500 (inc. software)	**£589**

PRO ROM SWAPPER



Swap between Kickstart chips
Fits A500, A500+, A600, A1500
Auto swapping via keyboard control
Flexible cable allows the swapper to work in conjunction with accellerators
Simple to fit - full instructions

Pro ROM Swapper	**£18**
Pro ROM Swapper + 1.3 ROM	**£35**
Pro ROM Swapper + 2.04 ROM	**£40**

KICKSTART ROMS

Kickstart ROM 2.04	**£24**
Kickstart ROM 1.3	**£17**
Kickstart ROM 2.05	**£42**

chnical Excellence

LU4 8EZ Telephone (0582) 491949 (6 Lines) EST 1984



PRO AGNUS 2MB

Provides a full 2MB of Chip Memory for the Amiga 500 and A1500/2000 • Designed and built in England • Supplied with 8375 Obese Agnus • Includes 2MB Memory on board in the form of low power Zips • Allows the processing of elaborate animation and sound sampling • Provides the same max. chip memory as the A1200/A4000 & 500+ • Increases addressable memory space from 9MB to 10MB • Complete with full instructions and flying leads • British made

Pro Agnus 2MB.................................£129
(Free fitting available - phone for details)



A500 MEMORY EXPANSIONS

A500 Pro-Ram 0.5Meg Upgrade
Allows 1MB software to run
Chip memory compatible
British made

Without clock £16
With clock £19

A500 Pro-Ram 1.5Meg.Upgrade
Gives a full 2MB of memory..............£78

A500+ 1MB Meg Upgrade..............£29.95

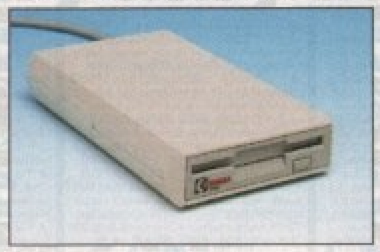
POWER SUPPLY UNITS



Allows the addition of peripherals without damage to computer or power supply
Why risk damaging your expensive kit when one simple investment will ensure total peace of mind now and for the future
Switch mode design
Full crow bar projection
British made

A500 Power supply unit..........£44.95
A1200 Power supply unit........£54.95
A600 Power supply unit..........£44.95
A590 Power supply unit..........£44.95
GVP HD Power supply unit.....£49.95
CD32 Power supply unit.........£44.95

3.5" EXTERNAL DRIVE



High Quality
Renowned and proven reliability
Anti-click
Long moulded cable
Slimline design
High impact plastic

Cumana external drive......................£57
Cumana external drive + 100 capacity disk box..............................£61
Cumana external drive + 100 capacity disk box 20 blank disks......£66
A500/A500+ Internal replacement disk drive..£39
A600/A1200+ Internal replacement disk drive..£59
A2000 Internal replacement disk drive..£57

COLOUR PRINTERS



High quality premium range of Amiga printers
Two year manufacturers warranty
Complete with cable
Citizen registered for dealer plus service
Panasonic centre of excellence

Seikosha SP-1900............................£99
Seikosha Speedjet 200 + int sheet feeder £179
Swift 90 Colour..............................£149
Swift 200 Colour............................£189
Swift 240 Colour............................£219
Panasonic KXP 1170.......................£109
(9 pin 80 column, 192 CPS Draft)
Panasonic KXP 2123 Colour £199
(24pin 80 column, 192 CPS Draft)
HP Deskjet 600 Colour...................£469
(600 x 300 DPI)
HP Laser jet 4 (4 pages per minute).........£469

CHIPS & SPARES



KickStart 2.04 kit..............................£79
KickStart 2.04 ....£24
KickStart 1.3 ....£17
KickStart ROM Swapper....................£18
(Swap between KickStarts)
Fatter Agnus 8372............................£24
Obese Agnus 8375 ....£39
Hi-Res Densie...................................£16
1MB x 9 Simms (3 chip).....................£39
1MB x 4 Zips £19
8520 CIA £7
32 Simm 1MB.....................................£62
32 Simm 2MB...................................£104
32 Simm 4MB...................................£149
32 Simm 8MB...................................£289
A500 modulator.................................£36
Replacement mouse.......................£13.99
A500 Internal Disk Drive £47
A600/A1200 Internal Drive.................£59
3.5" IDE/2.5" IDE cable £19.99
Spike surpression plug £14.99

STOP PRESS
NEW INNOVATIONS

Now the power of the modem is within your grasp with the advent of these cost effective Pro range of hi-spec modems. Auto dial auto-answer, Hayes compatible

Pro 2400 FP - Fax Modem v22, v22 BIS, V21, V29, V27 TER, 300-2400 BPS/Fax 9600 ....£74
Pro VC144E - Fax Modem v22, v22 BIS, V21, V29, V27 TER, V32, V32/V44 BIS £189
All modems inclusive of Comms software, leads and power supply
Amiga 500 ex-demo computer inc. PSU & leads £179
Scala Multi Media 300.................................£309 GVP A1230 Mk II 40MHz 4Mb Accelerator £399
How to make your Amiga into a robot controller - Ask for catalogue

SALES HOTLINE 0582 491949 (6 LINES), 0480 471117 (24HR), FAX 0582 505900

Credit card ordering by phone is easy. Simply phone our sales hotline quoting your credit card number., expiry date, name and address and the products you wish to order and we'll do the rest. Alternatively write the above details on your letter when ordering by post.
When ordering by post in cheque form please write your cheque card guarantee number on the reverse of the cheque and send along with your order. Postal orders are also accepted.

MINIMUM ORDER AMOUNT £15.00
NO DELIVERY CHARGES TO UK MAINLAND. Should you wish your order to be sent by courier service please add £5. this method secures the item with full insurance, not express.

WARRANTY: One year warranty return to base. **ONE YEAR EXTENDED WARRANTY**: Available on all products at 10% of purchase price when ordering.

Where to find us!

Head Office
WTS Electronic Ltd
Chaul End Lane
Luton
0582 491949

Computer Mall Bedford
The Harpur Centre
Bedford
0234 218228

Computer Mall St.Neots
Priory Mall Shopping Centre
St.Neots
0480 471117

Computer Mall Hertford
49 Railway Street
Hertford
0992 503606

Computer Mall Dunstable
84 High Street North
Dunstable
Bedfordshire
0582 475747

All prices quoted or products advertised are subject to availability. WTS reserve the right to amend prices or substitute suitable product without prior notice. Strictly payment with order. Please allow 28 days for delivery. Due to availability and the technical nature of some products, even when in stock, delays may occur in excess of 28 days. E&OE.

Macros built for change

Paup Overaa gives a few tips on how to create easily modifiable search and replace ARexx macros



One of the great things about word-processors and text editors which have ARexx interfaces is that it's possible to create sophisticated search and replace facilities by building the appropriate macros.

You might for instance have some documents that contain dimensions and weights which need to be converted to their metric equivalents, weights in lbs to kilos for example and this would mean not only changing the 'lbs' units to 'kilos' but also altering the numerical values by dividing each weight by 2.205 (since 2.205 lb = 1 kilo).

Feet/inches to centimetres, pints to millilitres etc., there are hundreds of situations where similar types of conversion can be useful.

Moreover, when you have documents that include, say, tables containing a whole set of values that need converting, then it is obviously better to have the process automated because the chance of errors being introduced is eliminated once a tried and tested conversion macro is available for use.

It is, however, only worth creating macros to do this sort of thing if you can write the macro quickly enough to make it an economic proposition time wise.

The trick here is to have ready-made fragments of code available that you can copy and modify to do particular jobs and the example code this month is just such a piece of code.

PATTERN

It's a procedure called ModifyBlock() that can be given a block of text along with the units to be changed, the name of the replacement unit and an appropriate conversion factor, and it will return the block with the desired changes in place.

Once you've got the general idea, creating your own specialised procedures for doing this type of thing is not hard because the guts of the routines tend to follow the same pattern.

Split the text up into words, search for the word or words that you are interested in, convert them, and then reassemble the text block. If the conversion to be performed is not straightforward enough to be written with a few lines of code, it is probably better to write a separate procedure for the conversion function and then call that from the generalised code that isolates the individual words.

Don't forget that compound variables, such as word$.i and word$.j in the example routine can always be used as parameters for other procedures.

You could, if desired, extend this month's example code by passing and collecting the isolated number and unit values using these types of statements:

```
word$.i=ChangeWord1(word$.i)
word$.j=ChangeWord2(word$.j)
```

Isolating the conversion-specific code is actually quite a good idea because you don't then have to make any changes to the structure of the parts of the routine that identify the required words in the text.

If you were a teacher with a whole series of maths tests on disk involving conventional base 10 arithmetic and you wanted to create a macro that could automatically convert all the test paper sums and answers to base 2 or some other base, the idea would be to pass the identified numbers to a specialist routine that returned the converted value like this:

```
word$.i=ConvertNumber(word$.i)
```

For illustration purposes I've just coupled the ModifyBlock() procedure to a short test program that passes some example text containing a couple of 'lbs' values and gets the values converted to kilos.

In your own programs you would, of course, use your editor's (or word-processor's) own ARexx-specific instructions to collect lines or paragraphs from the document being edited.

Incidentally, don't get thrown by the dollar ($) signs at the end of some of my variables – this is just a convention that I use on those occasions where variables are clearly used for text strings. The variable used to hold a block of text is therefore labelled block$, whereas the variable used to hold the value for unit conversion (conceptually a number) is called conversion_factor.

ARexx variables are, of course, typeless and internally ARexx treats all such values as strings anyway. Nevertheless, I find that adding a little pseudo-type information serves as a useful purpose during the development of ARexx code and you'll see this convention used in all the code I write.

Talking of code, you'll see that I've chosen a very obvious way of looking for values to change in this month's example. Look for a number and then check to see whether the subsequent word indicates the correct units.

It works but there is one improvement that can cut the execution time of the routine in half. If you like puzzles then have a think about the current version of the code and see if you can spot the change to be made before the next issue let's you in on the secret!

Value changing

```
/* ------------------------------------------------------------------------- */
ifyBlock() procedure in action */
mytext$='Can I have 2 lbs of apples and 10 lbs of onions please'
say mytext$
mytext$=ModifyBlock(mytext$,'lbs','kilos',1/2.205)
say mytext$
exit
/* ------------------------------------------------------------------------- */
ModifyBlock: procedure
parse arg block$,unit$,new_unit$,conversion_factor
numeric digits 4
number_of_words=Words(block$)

do i=1 to number_of_words
word$.i=Word(block$,i) /* extract words from block */
end

do i=1 to number_of_words-1
if DataType(word$.i,'N') then
do
j=i+1
if word$.j=unit$ then
do
word$.i=conversion_factor*word$.i   /* more complex conversions */
word$.j=new_unit$       /* could be done using */
end                     /* further procedure calls */
end
end

block$=''
do i=1 to number_of_words
block$=block$ word$.i /* rebuild block */
end

return block$
/* ------------------------------------------------------------------------- */
```

E.M.COMPUTERGRAPHIC

THE U.K.'S NUMBER 1 AMIGA FONT AND CLIPART DISTRIBUTORS - AMIGA COMPUTING ISSUE 52

BITMAPPED CLIP ART

Fully sorted/saved as brushes, ready for import into your programs.

EMC Volume 1 - 5 Disks - £14.00 - Classic *IFF Clipart*
Sports, Cartoons, Military, Animals, Transport, People and Xmas.
EMC Volume 11 - 5 Disks - £14.00 - Classic *IFF Clipart*
People, Food, Aircraft, Animals, Cats/Dogs, Sport, Transport etc..
EMC Volume 15 - 8 Disks - £22.00 - Classic *IFF Clipart*
Electronics, Kids, Sports, Animals, Religion, Office, Food and more!
EMC Volume 22 - 5 Disks - £14.00 - Classic *IFF Clipart*
People, Sports, Medical, Animals, Computers, Office and lots more!
EMC Volume 28 - 5 Disks - £14.00 - Classic *IFF Clipart*
Animals, Xmas, Cats, Computers, Headers/Borders & Seasons.

VERY HIGH QUALITY IFF CLIP ART

Extremely large clipart which produces printouts of amazing quality. IFF format and compatable with ALL major applications.
We recommend that you have at least 2mb of memory to use these images!

EMC Volume 34 - 5 Disks - £14.00 - ***IFF Animals 1***
Bears, Birds, Dogs, Water, Insects, Horses, Reptiles and Exotic.
EMC Volume 35 - 5 Disks - £14.00 - ***IFF Animals 2***
Cats, Wild Cats, Funny Cats, Trop.Fish, Fish, Farm and Funny.
EMC Volume 36 - 8 Disks - £22.00 - ***IFF Transport***
Just about everything from Aircraft to Boats and Cars to Trains. .
EMC Volume 37 - 5 Disks - £14.00 - ***IFF Business***
Computers, Office, Bus.People, Printers and Funny Business.
EMC Volume 38 - 5 Disks - £14.00 - ***IFF Fantasy 1***
Barbarians, Beasts, Knights, Weapons, Dragons, Men & Women.
EMC Volume 39 - 5 Disks - £14.00 - ***IFF Fantasy 2***
Demons, Devils, Monsters, Skulls, Witches & Wizards etc..
EMC Volume 40 - 5 Disks - £14.00 - ***IFF Borders***
Stunning Borders - Animals, Women, Objects and Natural etc..
EMC Volume 41 - 6 Disks - £16.50 - ***IFF People 1***
Babies, Kids, Men, Women, Working, Families, Famous People.
EMC Volume 42 - 5 Disks - £14.00 - ***IFF Natural***
Plants, Flowers, Tropical Plants, Trees and Garden Plants.
EMC Volume 43 - 5 Disks - £14.00 - ***IFF Sports***
Gymnastics, Motor, Tennis, Golf, Water, Ball Games etc..
EMC Volume 44 - 6 Disks - £16.50 - ***IFF Education 1***
Bibles, School, Churches, Christ, Priests, History and Places.
EMC Volume 45 - 5 Disks - £14.00 - ***IFF Various 1***
Food, Easter, Xmas&Borders, Valentines, Sleighs and Wreaths.
EMC Volume 46 - 5 Disks - £14.00 - ***IFF Various 2***
Buildings, Dancing, Music, Rescue, Zodiac and Survival etc..
EMC Volume 47 - 5 Disks - £14.00 - ***IFF Humour***
Animals, Chickens, Idiots, People, Fruit, Kids, Dentists and Fish.
EMC Volume 50 - 6 Disks - £16.50 - ***IFF Dogs/Cats***
Just about every breed of Dog & Cat, inc. Wild Dogs & Cats.
EMC Volume 51 - 5 Disks - £14.00 - ***IFF Birds/Insects***
Eagles, Owls, Parrots, Common, Flies, Bugs, Bees and Spiders.
EMC Volume 52 - 5 Disks - £14.00 - ***IFF Animals 3***
Beavers, Gerbils, Hamsters, Deers, Farm Horses and Rabbits.
EMC Volume 53 - 5 Disks - £14.00 - ***IFF Animals 4***
Frogs, Snakes, Trop.Fish, Sea/Freshwater Fish, Insects etc..
EMC Volume 54 - 5 Disks - £14.00 - ***IFF Animals 5***
Apes, Elephants, Giraffes, Zebras, Bears, Teddy Bears etc.
EMC Volume 55 - 6 Disks - £16.50 - ***IFF Flowers 1***
Daffs, Flowering Plants, Chrys, Iris, Marigolds, Orchids, Lilies etc..
EMC Volume 56 - 6 Disks - £16.50 - ***IFF Flowers 2***
Poppies, Flowers & lots more flowers!
EMC Volume 57 - 6 Disks - £16.50 - ***IFF Flowers 3***
Petunias, Tulips, Flowers and lots more Flowers
EMC Volume 58 - 6 Disks - £16.50 - ***IFF Trees***
Humorous, Oak, Pine, Maple, Willows, Palms, Bonsai etc.
EMC Volume 59 - 6 Disks - £16.50 - ***IFF Plants1***
Bamboo, Pot Plants, Cacti, Yucca, Bulrushes, Thistles etc..
EMC Volume 60 - 6 Disks - £16.50 - ***IFF Plants 2***
Herbs, Food related plants and lots of other plants!
EMC Volume 61 - 6 Disks - £16.50 - ***IFF Military***
Aircraft, WWII Planes, Fighters, Tanks, Ships and lots more!
EMC Volume 62 - 5 Disks - £14.00 - ***IFF Fruit***
Apples, Grapes, R'berries, S'berries, Cherries, Pears etc..
EMC Volume 63 - 5 Disks - £14.00 - ***IFF People 2***
Babies, Kids, Kid's Stuff, Men, Cowboys, Famous etc..
EMC Volume 64 - 5 Disks - £14.00 - ***IFF People 3***
Circus, Historic, Borders, Beauty, Lingerie, Hairdressing etc.
EMC Volume 65 - 6 Disks - £16.50 - ***IFF Events***
B'day, Easter, Halloween, Xmas and nearly 2mb of Wedding.
EMC Volume 66 - 6 Disks - £16.50 - ***IFF Work***
Garden/Precision/Common Tools, Working Men, Machinery etc..
EMC Volume 67 - 6 Disks - £16.50 - ***IFF Food 1***
Italian, BBQ, Sweets/Puddings, Junkfood, Chefs/Waiters, Vegs.
EMC Volume 68 - 6 Disks - £16.50 - ***IFF Food 2***
Salad, Mushrooms, Sweetcorn, Wine, Champagne etc..
EMC Volume 69 - 5 Disks - £14.00 - ***IFF Science***
Doctors, Anatomy, Dentists, Medical Equip, Nurses etc..
EMC Volume 70 - 5 Disks - £14.00 - ***IFF Education 2***
Books, Teachers, Religion, Music/Instruments, Dancing and more!
EMC Volume 71 - 6 Disks - £16.50 - ***IFF Geography***
World Pics. - Asia, Egypt, Africa, Europe, India, Arabic etc.
EMC Volume 72 - 5 Disks - £14.00 - ***IFF Various 3***
Boats, Off Road, Italian/German Cars, Buses, Trains, Aircraft etc..
EMC Volume 73 - 5 Disks - £14.00 - ***IFF Various 4***
Castles, Houses, Cartoons and lots more!
EMC Volume 74 - 5 Disks - £14.00 - ***IFF Various 5***
Office Equip., Clothing, Computers, Electrics, Office Borders etc.
EMC Volume 75 - 5 Disks - £14.00 - ***IFF Various 6***
Soccer, Hunting, Fishing, Martial Arts, Flowers and lots more!
EMC Volume 76 - 5 Disks - £14.00 - ***IFF Various 7***
Masks, Household, Fantasy, English Stuff, Footwear and more!
EMC Volume 162- 6 Disks - £16.50 - ***IFF KidsArt***
Artwork by Kids for Kids. Ideal for Nursurys and Playgroups!
EMC Volume 163- 6 Disks - £16.50 - ***IFF Sports 2***
Cricket, Exercise, Martial Arts, Skiing, Rugby and lots more!
EMC Volume 164- 6 Disks - £16.50 - ***IFF Sports 3***
Football, Fishing, Ice Hockey, TPBowling, Snooker & Windsurfing
EMC Volume 165- 6 Disks - £16.50 - ***IFF Animals 6***
Jungle, Birds, Horses, Fish, Farm, Cats (all types) and lots more!
EMC Volume 166- 5 Disks - £14.00 - ***IFF Maps 1***
European Countries, S.American, Middle East, West Indies etc..
EMC Volume 167- 5 Disks - £14.00 - ***IFF Maps 2***
African, Asian, America (and States) and other Countries.
EMC Volume 168- 6 Disks - £16.50 - ***IFF Various8***
Houses, Elec. appliances and lots of Wood/Metalworking Tools!
EMC Volume 169- 6 Disks - £16.50 - ***IFF Various9***
Events, XMas, Working People, Cars, Gardening, Transport etc..
EMC Volume 170- 6 Disks - £16.50 - ***IFF Various10***
2mb+ of Borders, Furniture, Food, Places, Toys & LOTS of Trains.
EMC Volume 171- 6 Disks - £16.50 - ***IFF Various11***
Cameras, Cowboys, Kids & lots of Business & Computer Logos.
EMC Volume 172- 6 Disks - £16.50 - ***IFF Various12***
Medical, Statues, Insects, Maps and lots of Misc. People Bits!

OTHER FONTS AND CLIPART

EMC Vol 2 - 6 Disks - £16.50 - ***PC ClipArt***
.gem structured/.img clipart. Computers, Borders and lots more!
EMC Vol 3 - 2 Disks - £ 6.00 - ***Pagestream Fonts***
34 Pagestream format fonts, compatible with all program versions.
EMC Vol 21 - 6 Disks - £16.50 - ***PCX Clipart***
For P'stream - Animals, Cartoons, Computers, Sports etc.
EMC Vol 32 - 6 Disks - £16.50 - ***IMG ClipArt***
For P'stream - Animals, Food, Cartoons, Plants and Drinks.
EMC Vol 33 - 6 Disks - £16.50 - ***IMG ClipArt***
For P'stream - People, XMas, Buildings, Sports and Transport.
EMC Vol 48 - 5 Disks - £14.00 - ***ColorFonts***
54 4,8 and 16 color fonts for DPaint, Scala, Opalvision etc..
EMC Vol 49 - 5 Disks - £14.00 - ***ColorFonts***
63 4,8 and 16 color fonts for DPaint, Scala, Opalvision etc..
EMC Vol 18 - 5 Disks - £16.50 - ***60 PDraw Fonts***
EMC Vol 19 - 5 Disks - £16.50 - ***63 PDraw Fonts***
EMC Vol 20 - 5 Disks - £16.50 - ***50 PDraw Fonts***

Typesmith Demo Disk £3.50
Pagestream2 Demo Disks £6.99
Opalvision Update Disks £6.99

256 IFF COLOUR GRAPHICS FOR AGA AND 24 BIT AMIGAS

IFF256 format pics that will load directly into any 24 bit or AGA application, such as Dpaint 4.5, Opalvision, ADPro etc. You can also use these pics as WB backdrops on A1200/A4000's.

EMC Volume 88 - 6 Disks - £16.50 - ***256 Cars 1***
Ferraris, Corvette, Mercs, Formula 1, Sports Cars and more!
EMC Volume 89 - 6 Disks - £16.50 - ***256 Cars 2***
Porches, Lambos, Classic, E-Type, and US Sports Cars.
EMC Volume 90 - 6 Disks - £16.50 - ***256 Planes 1***
Falcons, Spitfire, Bombers, F-14's, Tomcats and more!
EMC Volume 91 - 6 Disks - £16.50 - ***256 Planes 2***
F-15's, F-16's, Harrier, B17's, Stealth Bombers and more!
EMC Volume 92 - 5 Disks - £14.00 - ***256 Space 1***
The Earth , NASA Space Shots, Lots of Planets and more!
EMC Volume 93 - 5 Disks - £14.00 - ***256 Space 2***
Enterprises, Space Shuttles, NASA Shots and more!
EMC Volume 94 - 5 Disks - £14.00 - ***256 Women***
Lots of Beautiful Women and Models
EMC Volume 95 - 5 Disks - £14.00 - ***256 WildCats***
Lions, Tigers, Leopards and lots of other WildCats!
EMC Volume 96 - 6 Disks - £16.50 - ***256 Horses 1***
Running Horses, Foals, Rodeo Horses and more horses!
EMC Volume 97 - 6 Disks - £16.50 - ***256 Horses 2***
Horses in the snow, Horses on the beach and more Horses!
EMC Volume 98 - 5 Disks - £14.00 - ***256 Dogs 1***
Alsation, Labrador, Cute puppies and even some ugly ones!
EMC Volume 99 - 5 Disks - £14.00 - ***256 Dogs 2***
Setters, Cute Dogs with Cats, Cute Puppies and more!
EMC Volume 100 - 6 Disks - £16.50 - ***256 Cats 1***
Really cute and humorous pictures of Cats and Kittens!
EMC Volume 101 - 6 Disks - £16.50 - ***256 Cats 2***
More really cute and humorous pictures of Cats and Kittens!
EMC Volume 102 - 6 Disks - £16.50 - ***256 WaterLife***
Dolphins, Whales, Frogs, Fish, GoldFish and lots more!
EMC Volume 103 - 6 Disks - £16.50 - ***256 Sun & Sea***
Just about everything from Tropical Islands to Sandy Beaches.
EMC Volume 104 - 6 Disks - £16.50 - ***256 Animals 1***
Pandas, Deers, Bears (all types), Zebras and lots more!
EMC Volume 105 - 6 Disks - £16.50 - ***256 Animals 2***
Elephants, Gorillas, Chimps, Monkeys, Seals, Koalas and more!
EMC Volume 106 - 6 Disks - £16.50 - ***256 Animals 3***
Wolves, Moose, Cougar, Kangaroo, Fox Pups and lots more!
EMC Volume 107 - 6 Disks - £16.50 - ***256 Animals 4***
Lizard, Squirrels, Walrus, Kittens and lots of Other Animals.
EMC Volume 108 - 6 Disks - £16.50 - ***256 Panorama 1***
Forests, Mountain Rivers/Lakes, Waterfalls, Rainbows and more.
EMC Volume 109 - 6 Disks - £16.50 - ***256 Panorama 2***
Snow Topped Mountians, MountianLakes, Waterfalls, Streams etc.
EMC Volume 110 - 6 Disks - £16.50 - ***256 Panorama 3***
Rolling Hills, Snow Scenes, Farms, Small Harbour, and Lots more!
EMC Volume 111 - 6 Disks - £16.50 - ***256 The Sun***
Sunrises and Sunsets from Cities to Lakes to Deserts!
EMC Volume 112 - 5 Disks - £14.00 - ***256 World People***
American/Amazon Indians, Hawaiians, Africans and more!
EMC Volume 113 - 6 Disks - £16.50 - ***256 America***
Grand Canyon, Vegas, CeasarsPalace, White House etc.
EMC Volume 114 - 6 Disks - £16.50 - ***256 Castles***
Castles with Moats, Castles on Mountains, Castles on Rivers etc..
EMC Volume 115 - 6 Disks - £16.50 - ***256 The World***
From around the world - Egypt, Japan, Italy, France, England etc.
EMC Volume 116 - 5 Disks - £14.00 - ***256 Birds 1***
Parrots, Humming Birds, Flamingos, and lots more Birds!
EMC Volume 117 - 5 Disks - £14.00 - ***256 Birds 2***
Ducks, Eagles, Hawks, Owls, Winter Birds and more Birds!
EMC Volume 118 - 5 Disks - £14.00 - ***256 Birds 3***
Swans, Falcons and lots of birds that we can't identify!
EMC Volume 119 - 6 Disks - £16.50 - ***256 Fantasy 1***
Warriors, Dragons, Female Warriors and lots more!
EMC Volume 120 - 6 Disks - £16.50 - ***256 Fantasy 2***
Dragon Lance pics, Dracula, Skull Warriors and lots more!
EMC Volume 121 - 6 Disks - £16.50 - ***256 The Movies***
Batman, Starwars, Top Gun, Terminator, Indy, Karate Kid etc..
EMC Volume 122 - 5 Disks - £14.00 - ***256 Renders 1***
Rendered Dragons, Glasshouse, Medcedes cars and more!
EMC Volume 123 - 5 Disks - £14.00 - ***256 Renders 2***
Rendered Bugs, Chess Boards, Various Rooms, F-18 and more!
EMC Volume 124 - 5 Disks - £14.00 - ***256 Renders 3***
Rendered kitchens, Bowling, Insects, Cameras and more!
EMC Volume 125 - 5 Disks - £14.00 - ***256 Girls 1***
Beautiful Women dressed in very little...Blood boiling!
EMC Volume 126 - 5 Disks - £14.00 - ***256 Girls 2***
Beautiful Women dressed in very little...Blood boiling!
EMC Volume 127 - 5 Disks - £14.00 - ***256 Girls 3***
Beautiful Women dressed in very little...Blood boiling!
EMC Volume 128 - 6 Disks - £16.50 - ***256 Water Girls***
Beautiful Women under Waterfalls, at the Pool and very wet!
EMC Volume 129 - 5 Disks - £14.00 - ***256 Swim Suits***
Beautiful Women, of all shapes and sizes, in Swimsuits.
EMC Volume 130 - 5 Disks - £14.00 - ***256 Bikinis***
Beautiful Women, of all shapes and sizes, in Bikinis
EMC Volume 131 - 5 Disks - £14.00 - ***256 Beach Girls***
Women on the beach, the kind of babes you see in Baywatch!
EMC Volume 132 - 5 Disks - £14.00 - ***256 Lingerie***
Beautiful Women, of all shapes and sizes, in Lingerie.
EMC Volume 133 - 5 Disks - £14.00 - ***256 Star Trek***
High quality pictures of the NCC1701, TNG/ TOS characters etc..
EMC Volume 134 - 5 Disks - £14.00 - ***256 Various 1***
Mixture of pics. mainly of Women & Fantasy...Starter volume!?
EMC Volume 135 - 5 Disks - £14.00 - ***256 Reptiles***
Snakes, Frogs, Lizards, Crocs and some amazing pics of Dinos.
EMC Volume 136 - 6 Disks - £16.50 - ***256 Classic Cars***
6 disks packed with Classic cars of all shapes and sizes.
EMC Volume 137 - 6 Disks - £16.50 - ***256 Cars 3***
Vettes, Porches, Aston, Countachs, E-Type, Mini, RR, Esprit etc..
EMC Volume 138 - 6 Disks - £16.50 - ***256 Fast Cars***
Testas, F-40's, Countachs, Porches, Lotus and lots more!
EMC Volume 139 - 6 Disks - £16.50 - ***256 Racing***
6 disks full of Indy Racing, Formula 1, Drag Racing and more!
EMC Volume 140 - 6 Disks - £16.50 - ***256 Boats***
Power, Yachts, Military and just about every other type of boat!
EMC Volume 141 - 5 Disks - £14.00 - ***256 Trains 1***
1st of our 256 Train vols. containing Steam and Electric locos!
EMC Volume 142 - 5 Disks - £14.00 - ***256 Trains 2***
2nd of our 256 Train vols. containing Steam and Electric locos!
EMC Volume 143 - 5 Disks - £14.00 - ***256 Trains 3***
3rd of our 256 Train vols. containing Steam and Electric locos!
EMC Volume 144 - 5 Disks - £14.00 - ***256 Trains 4***
4th of 256 Train vols. containing Steam and Electric locos!
EMC Volume 145 - 6 Disks - £16.50 - ***256 Military***
Desert Storm, Tanks, Bombs, Jets, Cannons, Naval and more!
EMC Volume 146 - 6 Disks - £16.50 - ***256 Flight***
Planes, H'copters, LightPlanes and stunning pics. of Hot Air balloons.

MORE 256 IFF COLOUR GRAPHICS FOR AGA AND 24 BIT AMIGAS

EMC Volume 147 - 6 Disks - £16.50 - ***256 Jet Fighters***
F-117's, Phantoms, F-16 Falcons, Aircraft Carriers and lots more!
EMC Volume 148 - 6 Disks - £16.50 - ***256 Snow Scenes***
Spectacular pics. of Snow Capped M'tains, Snowy Forests & Rivers.
EMC Volume 149 - 6 Disks - £16.50 - ***256 WaterLife 2***
Colourful pics. of Tropical Fish, Coral, StarFish and lots more!
EMC Volume 150 - 6 Disks - £16.50 - ***256 Travel***
Stonehenge, KingTut (Stunning), G.Canyon, Collesium and more!
EMC Volume 151 - 5 Disks - £14.00 - ***256 NASA 1***
A'nauts, Shuttles, Planets, Lunar Modules and Hubble T'scope etc.
EMC Volume 152 - 5 Disks - £14.00 - ***256 NASA 2***
Shuttles, S'lites, Launch Sites, Launchs and lots of Space Shots!
EMC Volume 153 - 6 Disks - £16.50 - ***256 Babes 1***
Due to overwhelming demand...yet more disks of Beautiful Babes!
EMC Volume 154 - 6 Disks - £16.50 - ***256 Babes 2***
Due to overwhelming demand...yet more disks of Beautiful Babes!
EMC Volume 155 - 6 Disks - £16.50 - ***256 Babes 3***
Due to overwhelming demand...yet more disks of Beautiful Babes!
EMC Volume 156 - 6 Disks - £16.50 - ***256 Babes 4***
Due to overwhelming demand...yet more disks of Beautiful Babes!
EMC Volume 157 - 6 Disks - £16.50 - ***256 Babes 5***
Due to overwhelming demand...yet more disks of Beautiful Babes!
EMC Volume 158 - 6 Disks - £16.50 - ***256 Hunks***
One for the Girls - 6 disks of 'Chippendale' type Hunky men!
EMC Volume 159 - 6 Disks - £16.50 - ***256 Various 2***
Pictures mainly comprising of Babes and Wild Cats.
EMC Volume 160 - 6 Disks - £16.50 - ***256 Various 3***
Famous People, Waterlife, Snow Scenes and Travel.
EMC Volume 161 - 6 Disks - £16.50 - ***256 Various 4***
Space, Hunks, Babes, Rock Stars and Famous People!
EMC Volume 208 - 6 Disks - £16.50 - ***256 Robots***
Some amazing high quality artwork of chrome plated female robots.
EMC Volume 209 - 6 Disks - £16.50 - ***256 Heavy Metal***
Very nice fantasy type artwork from Heavy Metal magazine.
EMC Volume 210 - 6 Disks - £16.50 - ***256 Star Wars***
Quality pictures and artwork from the Star Wars movies.
EMC Volume 211 - 6 Disks - £16.50 - ***256 Night Breed***
Quality pictures and artwork from the SciFi series - Night Breed.
EMC Volume 212 - 6 Disks - £16.50 - ***256 DS9 1***
Quality pictures and artwork from Star Trek - Deep Space Nine.
EMC Volume 213 - 6 Disks - £16.50 - ***256 DS9 2***
Quality pictures and artwork from Star Trek - Deep Space Nine.
EMC Volume 214 - 6 Disks - £16.50 - ***256 DS9 3***
Quality pictures and artwork from Star Trek - Deep Space Nine.
EMC Volume 215 - 6 Disks - £16.50 - ***256 DS9 4***
Quality pictures and artwork from Star Trek - Deep Space Nine.
EMC Volume 216 - 6 Disks - £16.50 - ***256 DS9 5***
Quality pictures and artwork from Star Trek - Deep Space Nine.
EMC Volume 217 - 6 Disks - £16.50 - ***256 TNG 1***
Quality pictures and artwork from Star Trek - The Next Generation.
EMC Volume 218 - 6 Disks - £16.50 - ***256 TNG 2***
Quality pictures and artwork from Star Trek - The Next Generation.
EMC Volume 219 - 6 Disks - £16.50 - ***256 TNG 3***
Quality pictures and artwork from Star Trek - The Next Generation.
EMC Volume 220 - 6 Disks - £16.50 - ***256 Star Trek 2***
Great pictures and artwork from Star Trek - Original series & Movies.
EMC Volume 221 - 6 Disks - £16.50 - ***256 Star Trek 3***
Great pictures and artwork from Star Trek - Original series & Movies.
EMC Volume 222 - 6 Disks - £16.50 - ***256 Conan***
Excellent 256 artwork featuring Conan the Barbarian.
EMC Volume 223 - 6 Disks - £16.50 - ***256 Dr Who***
Great pictures and excellent artwork from the cult series Dr Who.
EMC Volume 224 - 6 Disks - £16.50 - ***256 TV-SciFi***
This volume comprises of pictures and artwork from Blake 7 and "V"
EMC Volume 225 - 6 Disks - £16.50 - ***256 D.Lance 1***
Stunning, high quality artwork from Dragon Lance.
EMC Volume 226 - 6 Disks - £16.50 - ***256 D.Lance 2***
Stunning, high quality artwork from Dragon Lance.
EMC Volume 227 - 6 Disks - £16.50 - ***256 BorisV 1***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 228 - 6 Disks - £16.50 - ***256 BorisV 2***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 229 - 6 Disks - £16.50 - ***256 BorisV 3***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 230 - 6 Disks - £16.50 - ***256 BorisV 4***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 231 - 6 Disks - £16.50 - ***256 BorisV 5***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 232 - 6 Disks - £16.50 - ***256 BorisV 6***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 233 - 6 Disks - £16.50 - ***256 BorisV 7***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 234 - 6 Disks - £16.50 - ***256 BorisV 8***
Exceptional artwork by the renowned fantasy artist Boris Vallejo.
EMC Volume 235 - 6 Disks - £16.50 - ***256 Kelly 1***
Excellent artwork by the famous fantasy artist Ken Kelly.
EMC Volume 236 - 6 Disks - £16.50 - ***256 Kelly 2***
Excellent artwork by the famous fantasy artist Ken Kelly.
EMC Volume 237 - 6 Disks - £16.50 - ***256 SciFi Art 1***
Mixed bag of great artwork and pictures with a general SciFi theme.
EMC Volume 238 - 6 Disks - £16.50 - ***256 SciFi Art 2***
Mixed bag of great artwork and pictures with a general SciFi theme.
EMC Volume 239 - 6 Disks - £16.50 - ***256 Woodroffe***
Really good Weird fantasy pic.s from the world of Patrick Woodroffe
EMC Volume 240 - 6 Disks - £16.50 - ***256 Movies 2***
Excellent pics/artwork from films - DS9, Star Wars, Terminator, "V",
EMC Volume 241 - 6 Disks - £16.50 - ***256 D & D***
Stunning artwork with a Dungeons and Dragons theme.
EMC Volume 242 - 6 Disks - £16.50 - ***256 Fantasy 3***
Loads of good quality general fantasy artwork.
EMC Volume 243 - 6 Disks - £16.50 - ***256 White 1***
Spectacular artwork by the renowned fantasy artist Tim White.
EMC Volume 244 - 6 Disks - £16.50 - ***256 White 2***
Spectacular artwork by the renowned fantasy artist Tim White.
EMC Volume 245 - 6 Disks - £16.50 - ***256 White 3***
Spectacular artwork by the renowned fantasy artist Tim White.

VIDEOGRAPHERS EMC are teaming up with a leading film/production team with the aim of conducting weekend seminars covering all aspects of Amiga related video production and post production for the beginner, semi-pro and full Pro. If you are interested, send an SAE along with a brief letter detailing your interests and we will forward you full information & course prospectus when details have been finalised.

SPECIALISING IN THE PROMOTION OF DTP ON THE AMIGA AND WINNERS OF THE 1992 AMIGA SHOPPER TOP TYPEFACE AWARD

P S D
THE PROFESSIONAL STANDARDS FOR DISTRIBUTION
ENDORSED BY COMMODORE UK

TYPE 1 FONTS

Compatible with Pagestream, The Publisher, Final Copy2 rel2, Final Writer etc.

EMC Vol 4 - 5 Disks - **£14.00** - *67 Type1's*
EMC Vol 5 - 5 Disks - **£14.00** - *63 Type1's*
EMC Vol 6 - 5 Disks - **£14.00** - *83 Type1's*
EMC Vol 7 - 5 Disks - **£14.00** - *68 Type1's*
EMC Vol 16 - 5 Disks - **£14.00** - *76 Type1's*
EMC Vol 17 - 5 Disks - **£14.00** - *79 Type1's*
EMC Vol 27 - 5 Disks - **£14.00** - *56 Type1's*
EMC Vol 29 - 5 Disks - **£14.00** - *80 Type1's*

NEW TYPE 1 FONT VOLUMES

EMC Vol 77 - 5 Disks - **£16.50** - *78 Type1's*
EMC Vol 78 - 5 Disks - **£16.50** - *69 Type1's*
EMC Vol 79 - 5 Disks - **£16.50** - *84 Type1's*
EMC Vol 80 - 5 Disks - **£16.50** - *71 Type1's*
EMC Vol 81 - 5 Disks - **£16.50** - *106 Type1's*

CG SCALABLE FONTS

Compatible with all versions of PPage, PSetter2/3, WWorth, WB2/3, Scala, Opalvision and DPaint 4.1+ etc.

EMC Vol 8 - 5 Disks - **£16.50** - *61 CGFonts*
EMC Vol 9 - 5 Disks - **£16.50** - *64 CGFonts*
EMC Vol 10 - 5 Disks - **£16.50** - *57 CGFonts*
EMC Vol 23 - 5 Disks - **£16.50** - *58 CGFonts*
EMC Vol 24 - 5 Disks - **£16.50** - *64 CGFonts*
EMC Vol 25 - 5 Disks - **£16.50** - *66 CGFonts*
EMC Vol 26 - 5 Disks - **£16.50** - *71 CGFonts*
EMC Vol 30 - 5 Disks - **£16.50** - *59 CGFonts*
EMC Vol 31 - 5 Disks - **£16.50** - *60 CGFonts*

NEW CG SCALABLE FONTS

Supplied, due to popular demand, with PS downloadables!

EMC Vol. 82 - 5 Disks - **£16.50** - *53 CGFonts*
EMC Vol. 83 - 5 Disks - **£16.50** - *48 CGFonts*
EMC Vol. 84 - 5 Disks - **£16.50** - *46 CGFonts*
EMC Vol. 85 - 5 Disks - **£16.50** - *46 CGFonts*
EMC Vol. 86 - 5 Disks - **£16.50** - *34 CGFonts*
EMC Vol. 87 - 5 Disks - **£16.50** - *38 CGFonts*

PICK 'N' MIX SERVICES

We offer you not one...but TWO Pick 'N' Mix Services!

FONT PICK 'N' MIX FONT SERVICE

*This service, unlike others, is implemented properly! For example all CG Scalable fonts can be supplied with postscript downloadable fonts (if required) - **Who else supplies them?** Full details in the EMC Information Pack.*

CLIPART PICK 'N' MIX SERVICE

*We believe this to be the first service of its type on ANY computer platform. So what is the Clipart PNM service? Well, basically if you are ever in need of **HIGH QUALITY** clipart on a particular subject...this service could be for you. If you are in need of a disk full of flowers, business people, medical equipment or even teddy bears...just contact us and we will create a disk (or disks) tailor made to meet **your** requirements.*

SCANNING SERVICE

HAVE YOU EVER NEEDED SOME ARTWORK SCANNING? ARE YOU SICK OF USING "CUT AND PASTE" METHODS TO GET YOUR ARTWORK ON PAPER? EVER WANTED TO USE ONE OF YOUR FAVORITE PHOTOS AS AN AGA/VIDEO BACKDROP? EVER WANTED TO SMARTEN UP YOUR VIDEO PRESENTATIONS WITH CUSTOM GRAPHICS?

We have offered this service, to customers who have asked, for over a year. During this time the our scanning service has proved to be very popular with everybody from amateur desktop publishers to professional video users. We can provide high quality scans, in any format and resolution from your original artwork or photos up to A4 in size....

50 DPI TO 600 DPI - IN ANY FORMAT FROM MONOCHROME TO 24 BIT

We provide finished scans, on disk, in standard IFF file formats, but if required we can also supply artwork in most PC formats (PCX, Tiff, Gif etc) on MS-Dos high density disks.

FOR MORE DETAILS...GIVE US A RING!

ECS 16 COLOUR IMAGES FOR ALL AMIGAS

These VERY HIGH QUALITY images are compatible with ALL Amigas and were created especially for all our customers who have flooded us with requests for high quality colour graphics for their non AGA/24 bit Amigas. These images can be used with ALL versions of Dpaint, all DTP/Graphics programs and are especially suited when used as video backdrops in all versions of Scala.

YOU WON'T BELIEVE THAT THESE IMAGES ONLY CONTAIN 16 COLOURS!

EMC Volume 173 - 6 Disks - **£16.50** - ***ECS Chicks 1***
Girls, Girls and more Girls, Stunning Pictures...Enough to make you drool!
EMC Volume 174 - 6 Disks - **£16.50** - ***ECS Chicks 2***
Girls, Girls and more Girls, Stunning Pictures...Enough to make you drool!
EMC Volume 175 - 6 Disks - **£16.50** - ***ECS Chicks 3***
Girls, Girls and more Girls, Stunning Pictures...Enough to make you drool!
EMC Volume 176 - 6 Disks - **£16.50** - ***ECS Chicks 4***
Girls, Girls and more Girls, Stunning Pictures...Enough to make you drool!
EMC Volume 177 - 6 Disks - **£16.50** - ***ECS Chicks 5***
Girls, Girls and more Girls, Stunning Pictures...Enough to make you drool!
EMC Volume 178 - 6 Disks - **£16.50** - ***ECS Panorama 1***
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!
EMC Volume 179 - 6 Disks - **£16.50** - ***ECS Panorama 2***
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!
EMC Volume 180 - 6 Disks - **£16.50** - ***ECS Panorama 3***
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!
EMC Volume 181 - 6 Disks - **£16.50** - ***ECS Panorama 4***
Mountains, Lakes, Trees, Landscapes - Great Scala B'drops or DPaint Pics!
EMC Volume 182 - 6 Disks - **£16.50** - ***ECS Space 1***
Just about everything to do with Space including NASA and Star Trek!
EMC Volume 183 - 6 Disks - **£16.50** - ***ECS Space 2***
Just about everything to do with Space including NASA and Star Trek!
EMC Volume 184 - 6 Disks - **£16.50** - ***ECS Cars 1***
BMWs, E-Types, Ferraris, Formula1, Porches, Indy Car Racing and more!
EMC Volume 185 - 6 Disks - **£16.50** - ***ECS Cars 2***
Countachs, Ferraris, E-Types, Vettes, TransAms, Comaros and Classic.
EMC Volume 186 - 6 Disks - **£16.50** - ***ECS Aircraft 1***
Aircaft Carriers, F16s, Helicopters, Mustangs, Phantoms and lots more!
EMC Volume 187 - 6 Disks - **£16.50** - ***ECS Aircraft 2***
Bombers, Buccaneers, F117s, Hunters, F14s, F15s, F16s and lots more!
EMC Volume 188 - 6 Disks - **£16.50** - ***ECS Animals 1***
Apes, Bears, Pandas, Seals, Wolves, Reindeers, Deers and lots more!
EMC Volume 189 - 6 Disks - **£16.50** - ***ECS Animals 2***
Dinosaurs, Elephants, Snakes, Iguanas, Spiders, Frogs and lots more!
EMC Volume 190 - 6 Disks - **£16.50** - ***ECS Animals 3***
This vol. mainly contains Horses but also includes some other Animals.
EMC Volume 191 - 6 Disks - **£16.50** - ***ECS Animals 4***
This vol. mainly contains Wild Cats but also includes some other Animals.
EMC Volume 192 - 6 Disks - **£16.50** - ***ECS Dogs&Cats 1***
Loads of very high quality pictures of Domestic Dogs and Cats.
EMC Volume 193 - 6 Disks - **£16.50** - ***ECS Dogs&Cats 2***
Even more very high quality pictures of Domestic Dogs and Cats.
EMC Volume 194 - 6 Disks - **£16.50** - ***ECS Famous People***
Film Stars, Rock Stars, Other Famous People and lots of WWF Stars.
EMC Volume 195 - 6 Disks - **£16.50** - ***ECS Military***
Tanks, Aircraft Carriers, Desert Storm Pics, Infantry and lots more!
EMC Volume 196 - 6 Disks - **£16.50** - ***ECS Motor Racing***
Racing Bikes, Drag, Senna, Schumacker, Mansell & lots of Formula One.
EMC Volume 197 - 6 Disks - **£16.50** - ***ECS Trains***
Packed full of pictures of Steam Trains and Deisel/Electric Locomotives
EMC Volume 198 - 6 Disks - **£16.50** - ***ECS WaterLife***
TropicalFish, Coral & Other Sea Creatures. Great pictures for Backdrops!
EMC Volume 199 - 6 Disks - **£16.50** - ***ECS World 1***
Pics of Egypt (inc Tut!), France, Greece, Italy, USA etc. (Holiday Videos?)
EMC Volume 200 - 6 Disks - **£16.50** - ***ECS World 2***
Am. Indians, A'ralia, China, Britain, India, Japan + more (Holiday Videos?)

COMPUTER SAFARI

Desktop Publishing Typefaces

E.M.C. are the exclusive UK and European distributors for the HIGHLY ACCLAIMED commercial Computer Safari range of DTP Typefaces. Safari fonts are of exceptional quality, contain FULL character sets and have been highly praised in the UK Amiga press.
For those of you that have already purchased, or have information on the Safari fonts, we would like to inform you that Safari compilation packs are now available.
Full details are included in the EMC information pack.

16 COLOUR CLIPART FOR ALL AMIGAS

This VERY HIGH QUALITY colour clipart is suitable for use with ALL Amiga programs that suppport the use of colour clipart including Pagestream, PPage, PSetter, Wordworth, Final Copy, Final Writer, PenPal, Kindwords, Photon Paint, DigiPaint, DPaint, Scala etc..

All disks, except the disks on EMC Volume 204, contain special IFF index thumbnail screens. Simply double click on the "Disk Index" icon to see the entire disk contents!

EMC Volume 201 - 6 Disks - **£16.50** - ***CCA Animals 1***
This volume contains a whole host of Birds, Insects and Dinosaurs.
EMC Volume 202 - 6 Disks - **£16.50** - ***CCA Animals 2***
Lots of high quality coloured clipart of Dogs, Cats and Reptiles.
EMC Volume 203 - 6 Disks - **£16.50** - ***CCA Animals 3***
Horses, Reptiles and just about every mammal you could possibly think of!
EMC Volume 204 - 10 Disks- **£25.00** - ***CCA Maps***
This volume contains full colour maps of probably every country on Earth!
EMC Volume 205 - 6 Disks - **£16.50** - ***CCA Flowers***
Pot Plants, Wild Flowers, Garden Flowers, Bulbs, Hanging Plants etc..
EMC Volume 206 - 6 Disks - **£16.50** - ***CCA Natural***
This volume contains lots of Fruit, Vegetables and Trees.
EMC Volume 207 - 6 Disks - **£16.50** - ***CCA Various***
Lots of coloured Musical Instruments, Planes, Ships, Transport and Fish.

ECAPSULATED POSTSCRIPT CLIPART

Very high quality clipart, suitable for use with Pagestream, PPage 4.0+ and Final Writer.

EMC Vol. 12 - 6 Disks - **£16.50** - *EPS Clipart*
Weddings, Houses, Office, Kids, Mil.Planes, Boats, Food.
EMC Vol. 13 - 6 Disks - **£16.50** - *EPS Clipart*
Buildings, Animals, Sport, Aircraft, Hols, Chefs, People.
EMC Vol. 14 - 6 Disks - **£16.50** - *EPS Clipart*
Houses, World, Music, BiPlanes, Males/Females etc..

Don't bother with the rest... ...BUY FROM THE BEST!

The Amiga press have given EMC and it's products rave reviews. Now the video press are following suit. EMC's products received the coveted ...
Camcorder User Gold Award
May 1994 edition

CAMCORDER GOLD USER

THE EMC INFORMATION PACK

*The **HARD COPY** EMC information pack includes full details of **ALL** the fonts EMC has on offer, inc. Computer Safari Fonts, along with full font printouts, details of our PNM and scanning services, details of our ECS 16 colour and AGA 256 colour image collections, details of our PCX, GEM, monochrome, EPS, multiformat and colour clipart, a font and clipart compatability guide and many example printouts from our huge clipart collections.*

To get your copy, please send us your name and address, along with...

£1.00 & 25p POSTAGE

(Payment can be made with either stamps, postal orders or cheque)

Information packs and updates are included FREE with any order!

Amiga Computing in issue 52 said...
"E.M.C. are the FIRST and FOREMOST Font distributors in the UK" **they then placed us at...No.1 in the TOP 10 of the Amiga hardware/software chart!**
Ian Wrigley from Amiga Shopper in issue 16 said...
"...I must say that I'm quite impressed..."
Amiga Format in issue 36 said...
"...E.M.C. have an enormous amount of expertise in the tricky area of fonts and can provide professional help and advice to customers"
Amiga Format Special Edition said...
"...the best value rescalable fonts available anywhere...there's no cheaper way of getting quality fonts"
CUAmiga in the issue of September '92 said...
"...you couldn't do much better than taking a look through the sets offered by E.M.C."
Amiga Shopper January 1992 gave Safari Fonts and EMC...
"The Top Desktop Publishing Typeface Award For 1992"
Pat McDonald from Amiga Format in issue January 1992 said...
"The best person to talk to about fonts, in the UK at any rate is Errol at E.M.C"
Amiga Mart November 1992 said...
"EMC's emergence into the cut-throat retail area has come none too soon, their service and technical backup is second to none."

E.M.COMPUTERGRAPHIC - Font, Clipart and Software suppliers to over 7,000 customers!

Our so called competitors claim to offer outstanding technical support and service. If this is true why do the following companies prefer to buy their DTP software from us?
MERIDIAN DISTRIBUTION, CENTRAL TELEVISION, MERIDIAN SOFTWARE, FIRST COMPUTERS, BLITTERSOFT, OMEGA PROJECTS, THE INSTITUTE OF MATERIALS, THE UNIVERSITY OF LONDON, THE GUILD OF PROFESSIONAL VIDEOGRAPHERS, THE IMPERIAL WAR MUSEUM AND MAJORVISION INTERNATIONAL.

More fonts, More Clipart, and unrivalled Tech Support!

MasterCard VISA EUROCARD
E&OE
Credit Cards Welcome - Same Day Dispatch - £10 minimum order
Cheques / Postal Orders payable to: *E.M.COMPUTERGRAPHIC*
Cheques are subject to 5 working day clearance

E.M.COMPUTERGRAPHIC

8 Edith Road, Clacton, Essex. CO15 1JU
Tel : 0255 431389 Fax: 0255 428666

EMC

MICROLAND BULLETIN BOARD SYSTEM

0891 990 505 To Download | **0483 725 905 To View**

Shareware to download at V32bis, V32, V22bis, V22, V23, & HST etc. 8 data bits, no parity.

INTERNET CONNECTED

Microland is now connected to the world's largest network. We now provide full global mail, news, software archive, and interactive services. Don't miss out, get connected and explore the world of Internet. Download from the biggest archives in the world. Services subject to availability.

Why wait for your software when you can download now direct from your computer. Microland offers high speed connections and most files are compressed to minimise the cost. Check it out on 0483 725 905 at normal call charges. So much shareware you are spoilt for choice.

Calls to 0891 990 505 charged at 39p per minute cheap rate, 49p per minute all other times.
Trevan Designs Ltd. PO Box 13, Aldershot, Hants. GU12 6YX.

50 TOP AMIGA GAMES

FOR ONLY £9.99 POSTPAID!!

These games are NOT Public Domain or Shareware!
They are ALL 1993 Copyrighted games titles!

Adventures, Puzzlers, Platformers, Sports, Shoot-em-ups, Beat-em-ups etc.
Some of these games were MEGA-HITS

FUTURE SOFTWARE (AC)
8 Magnolia Park, Dunmurry, Belfast BT17 0DS
All AMIGAS – 1 MEGABYTE MINIMUM!
Fast Despatch on orders. Overseas add £2.00.

FAST AMIGA REPAIRS

FOR QUICK QUALITY WORK DONE AT COMPETITIVE PRICES

Upgrades + Engineering requirements

★ NORMAL SERVICE
£24.99 + parts
Free Quote

★ GUARANTEED SAME DAY SERVICE
+£10.00
computers received by 12.00 mid-day

also Monitors repaired
Door to door pick up + delivery anywhere in the U.K.
or see us at our workshop in Central London

Central London

REPAIRS DONE ON THE FULL AMIGA RANGE
* including A600+A1200

Low Cost upgrading

1/2 MB A500	£17.50
1MB A500+	£29.99
Hard Drives	P.O.A.
Internal Drives	£49.00

*SPARES AVAILABLE

FAST COMPUTER SERVICES
144, Tanner St., Tower Bridge, London SE1 2HG
Tel. 071-252 3553

Premier Mail Order

(E&OE)

Some titles may not be released at the time of going to press. Most titles are despatched same day, but can take up to 28 days. Please send cheque / PO (made out to Premier Mail Order) / Access / Visa No. and expiry date to:
Dept AC77, 9-10 The Capricorn Centre, Cranes Farm Road, Basildon, Essex SS14 3JJ. Tel: 0268-271172 Fax: 0268-271173
Telephone orders: Mon-Fri 9am-7pm and Sat & Sun 10am-4pm. We Are Open 364 Days A Year
P&P and VAT is included for all UK orders. Please add £2 P&P for Europe and £3.50 for Rest of the World. Next day delivery service available £4 per item

A-Train ... 12.99
A320 Airbus (Europe) ... 22.99
A320 Airbus (USA) ... 22.99
A320 Approach Trainer ... 19.99
Addiction ... 19.99
Air Bucks 1.2 ... 19.99
Akira ... 18.99
Akira ... CD32 19.99
Aladdin ... A1200 19.99
Alfred Chicken ... A500/A1200/CD32 17.99
Alien Breed 2/Tower Assault CD32 19.99
Alien Breed Special Edition ... 10.99
Alien Breed Special Edition ... CD32 17.99
Ambermoon ... 19.99
Amberstar ... 19.99
Apidya ... 8.99
Apocalypse ... 27.99
Arcade Pool ... 8.99
Archer Macleans ... (see Excellent Games)
Armourgeddon 2 ... 19.99
Assassin Remix ... 9.99
Award Winners 2 ... 19.99
B17 Flying Fortress (1 Meg) ... 22.99
Banshee ... A1200 17.99
Banshee ... CD32 19.99
Battle of Britain ... 14.99
Battlechess ... CD32 19.99
Beastlord ... 17.99
Beneath A Steel Sky ... 20.99
Beneath A Steel Sky ... CD32 19.99
Benefactor ... 17.99
Blastar ... 17.99
Body Blows Galactic ... 18.99
Body Blows Galactic ... A1200 19.99
Body Blows/Superfrog/Overdrive ... 19.99
Breach II ... 22.99
Brian the Lion ... CD32 17.99
Brutal Football ... CD32 19.99
Bubba N Stix ... A500/CD32 19.99
Bubble & Squeak ... CD32 19.99
Bump 'n' Burn ... 17.99
Caesar Deluxe ... 19.99
Caesar/Cohort 2 ... CD32 22.99
Cannon Fodder ... 20.99
Cannon Fodder ... CD32 19.99
Captive 2 - Liberation A500 or CD32 20.99
Cartoon Collection (Dizzy) ... 16.99
Castle Conquest ... 19.99
Championship Manager '93 (1 Meg) ... 16.99
Championship Man. '94 Season Disk ... 7.99
Championship Man. End of Season D/Disk ... 12.99
Championship Manager Italia ... 16.99
Championship Manager – Definitive ... 17.99
Chaos Engine ... 16.99
Chaos Engine ... A1200 17.99
Chaos Engine ... CD32 19.99
Chuck Rock ... CD32 12.99
Civilisation (1 Meg) ... 22.99
Cohort 2 ... 19.99
Colonel's Bequest ... 12.99
Combat Air Patrol ... 9.99
Combat Classics 2 ... 19.99
Contraptions ... 13.99
Craft ... 17.99
Crash Dummies ... 17.99
Cruise for a Corpse ... 12.99
Curse of Enchantia ... 22.99
Cybercon III ... 10.99
Cyberspace ... 22.99
D Day – Beginning to End ... 22.99
D Day – Overlord ... 22.99
Dangerous Streets ... A500 or A1200 17.99
Darkmere ... 20.99
Deepcore ... 17.99
Deepcore ... CD32 19.99
Deluxe Music Construction Set 2.0 ... 59.99
Deluxe Paint 4 AGA ... 64.99
Demomaniac ... 17.99
Desert Strike ... 19.99
Detroit ... 22.99
Disposable Hero ... CD32 19.99
Dizzy Collection ... 16.99
Dizzy's Excellent Adventure ... 16.99
Dogfight ... 22.99
Dracula ... 19.99
Dragonstone ... A1200/CD32 22.99
Dreamweb ... 22.99
Dune 2 ... 20.99
Dune ... 12.99
Elfmania ... 17.99
Elite 2 (Frontier) ... A500 or CD32 22.99
Empire Soccer '94 ... 19.99
European Championship Football ... CD32 19.99
Excellent Games ... 22.99
Exile ... CD32 19.99
Eye of the Beholder 1 ... 12.99
Eye of the Beholder 2 ... 12.99
Eye of the Storm ... 19.99
F117A Nighthawk Stealthfighter ... 22.99
F17 Challenge/Project X ... CD32 17.99
F19 Stealth Fighter ... 11.99
F29 ... 10.99
FIFA Soccer ... 19.99
Final Fight ... 8.99
Fire Force ... CD32 19.99
Flashback ... 20.99
Flight Sim 2 Great Britain Scenery ... 26.99
Flight Sim 2 Hawaiian Scenery ... 13.99
Flight Sim 2 Japan Scenery ... 13.99
Flight Sim 2 Scenery Collection A ... 26.99
Flight Sim 2 Scenery Collection B ... 26.99
Flight Sim 2 USA No. 7 Washington ... 13.99
Flight Sim 2 USA No. 9 Chicago ... 13.99
Flight Sim 2 USA No. 11 Detroit Scenery 13.99
Flight Sim 2 USA No. 12 New York ... 13.99
Flight Sim 2 Western European Tour 13.99
Flight Simulator 2 ... 22.99
Formula One Grand Prix ... 22.99
G2 ... 17.99
Genesia ... 19.99
Global Effect ... CD32 19.99
Goal ... 9.99
Graham Gooch 2nd Innings ... 11.99
Graham Gooch World Class Cricket ... 19.99
Graham Taylors Soccer Challenge ... 8.99
Grusome ... 16.99
Gulp ... CD32 19.99
Gunship 2000 ... A500/A1200 22.99
Harpoon 121 ... 12.99
Heimdall 2 ... A500/A1200/CD32 22.99
Heroquest 2 - Legacy of Sorasil ... 17.99
Hill Street Blues ... 8.99
Hired Guns ... 10.99
History Line 1914-18 (1 Meg) ... 22.99
Hoyle's Book of Games 1, 2 or 3 ... 10.99
Impossible Mission A500/A1200/CD32 19.99
Indiana Jones Fate of Atlantis Adv ... 24.99
Indy Jones Fate of Atlantis Action ... 8.99
Inferno ... CD32 19.99
Innocent Until Caught ... 10.99
International Manager – World Cup Edition ... 17.99
International Open Golf ... CD32 19.99
International Open Golf Championship ... 17.99
Jack Nicklaus Course Designer's Clip Art Vol 1 ... 7.99
Jack Nicklaus Unlimited Golf ... 12.99
Jack the Ripper ... 27.99
Jaguar XJ220 ... 8.99
James Pond 2 ... (see Excellent Games)
James Pond 3 ... A500/A1200/CD32 19.99
John Barnes European Football ... 8.99
John Madden American Football ... 10.99
Jungle Book ... A1200 19.99
Jurassic Park ... 17.99
Jurassic Park ... A1200 18.99
Jurassic Park ... CD32 19.99
K240 (Non AGA) - Utopia2 A500/CD32 19.99
Kick Off 3 ... 16.99
Kick Off 3 ... CD32/A1200 19.99
Kid Viscious ... A500/A1200/CD32 17.99
King Pin ... A500/A1200 8.99
King Pin ... CD32 12.99
Kingmaker ... 22.99
Kings Quest 1 ... 12.99
Kings Quest 2 or 3 ... 10.99
Kings Quest 6 ... A500/A1200 22.99
Kings Table ... 19.99
Knights of the Sky ... 10.99
Laser Squad ... 8.99
Leisure Suit Larry 1 or 2 ... 12.99
Leisure Suit Larry 3 ... 13.99
Lemmings 1 ... CD32 17.99
Lemmings Double Pack ... 19.99
Links - the Challenge of Golf ... 12.99
Lionheart ... CD32 14.99
Litil Divil ... CD32 19.99
Lords of Power ... 22.99
Lost Eden ... CD32 22.99
Lost Vikings ... CD32 19.99
Lotus Esprit Turbo Challenge ... 8.99
Lotus Trilogy ... 19.99
Lotus Turbo Trilogy ... CD32 22.99
Lure of the Temptress ... 12.99
Man United Premier League Champions ... 19.99
Manchester United Europe ... 8.99
Maniac Mansion ... 10.99
Mavis Beacon 2 ... 19.99
Messengers of Doom ... 19.99
Micro Machines ... 17.99
Microcosm ... CD32 29.99
Mighty Max ... A500/A1200/CD32 17.99
Mighty Max ... A500/A1200 17.99
Monopoly ... 18.99
Mortal Combat ... 20.99
New Zealand Story ... 6.99
Nicky 2 ... 17.99
Nigel Mansell's World Champ ... CD32 19.99
No Second Prize ... CD32 14.99
Perfect General ... (see Lords of Power)
Perihelion ... 19.99
PGA Tour Golf ... 12.99
Pinball Dreams & Fantasies ... 22.99
Pinball Fantasies ... A1200 19.99
Pinball Fantasies ... CD32 24.99
Pinball Magic ... 6.99
Pinkie ... A500/600/1200 17.99
Pinkie ... CD32 19.99
Pirates Gold ... CD32 19.99
Police Quest 1, 2 or 3 ... 12.99
Populous & Promised Lands ... 10.99
Populous 2+ ... (see Excellent Games)
Powermonger & Data Disk ... 12.99
Premier Manager 2 ... 12.99
Prime Mover ... 17.99
Prince of Persia ... 6.99
Pro Tennis Tour 2 - J. Connors Grt Courts 2 ... 8.99
Project X ... 10.99
Project X/F17 Challenge ... CD32 17.99
Psycho Killer ... CD32 22.99
Puggsy ... 19.99
Quest for Glory 1 ... 12.99
Quest for Glory 2 ... 13.99
Qwak/Alien Breed Special Edition ... CD32 17.99
Rainbow Islands ... 6.99
Red Baron ... (see Lords of Power)
Renegade 2 ... 16.99
Rise of the Robots ... A1200 27.99
Rise of the Robots ... A500 25.99
Rise of the Robots ... CD32 22.99
Robinsons Requiem ... 22.99
Rookies ... 16.99
Ryder Cup ... 17.99
Ryder Cup ... CD32 20.99
S.U.B. ... 19.99
Sabre Team (Enhanced) ... A1200/CD32 20.99
Scrabble ... 18.99
Second Samurai ... A500/A1200 19.99
Second Samurai ... CD32 17.99
Secret of Monkey Island 2 (1 Meg) ... 24.99
Secret of Monkey Island ... 12.99
Seek 'n' Destroy ... 17.99
Sensible Soccer 92/93 ... 16.99
Sensible Soccer ... CD32 19.99
Sensible Soccer International Edition 13.99
Settlers ... 19.99
Shadow Lands ... 8.99
Shuttle ... (see Excellent Games)
Sierra Soccer ... 16.99
Sim City + Populous ... 19.99
Sim City 2000 ... 22.99
Sim City Classic ... 12.99
Sim City Deluxe ... 22.99
Sim Life ... A500/A1200 22.99
Simon the Sorceror ... A1200 29.99
Simon the Sorceror ... A500/CD32 22.99
Skidmarks ... 17.99
Soccer Kid ... CD32 19.99
Space Hulk ... 22.99
Space Quest 2 ... 10.99
Speedball 2 ... 8.99
Star Trek ... A1200 22.99
Starlord ... 22.99
Starush ... 16.99
Streetfighter 2 ... 12.99
Striker ... 8.99
Striker ... CD32 19.99
Summer Olympix ... CD32 13.99
Super Hero ... 19.99
Super League Manager ... 17.99
Super Methane Brothers ... 17.99
Super Methane Brothers ... CD32 22.99
Superfrog/Arcade Pool ... CD32 16.99
Surf Ninjas ... CD 32 13.99
Syndicate ... 22.99
T.F.X. ... A1200/CD32 22.99
Tactical Mgr - English, Scottish or Italian ... 19.99
Team 17 Collection Vol. 1 ... 19.99
Test Match Cricket ... 16.99
The Blue & The Gray ... 22.99
The Greatest ... 21.99
Theatre of Death ... 9.99
Their Finest Hour ... 12.99
Tornado ... 22.99
Tornado ... A1200 26.99
Total Carnage ... 18.99
Total Carnage ... CD32 19.99
Tower Assault ... A500/A1200 13.99
Town With No Name ... CD32 22.99
Tracon 2 ... 22.99
Traps 'n' Treasures ... 17.99
Trivial Pursuit ... CD32 19.99
Trolls ... A500 or A1200 9.99
Trolls ... CD32 19.99
Turning Points ... 22.99
Turrican 3 ... A500 or CD32 17.99
TV Sports Duo ... CD32 19.99
Twi-Light 2000 ... 20.99
U96 ... 22.99
UFO ... 22.99
Ultimate Body Blows ... CD32 19.99
Ultimate Pinball Quest ... 19.99
Uncovered ... 17.99
Utopia ... 8.99
Valhalla ... 19.99
Vikings ... 9.99
Walker ... 9.99
Wembley International Soccer A1200 17.99
Wembley International Soccer CD32 19.99
Wembley Rugby League A500/A1200 17.99
Whales Voyage ... A1200/CD32 19.99
Wild Cup Soccer ... A500/A1200 17.99
Wild Cup Soccer ... CD32 19.99
Winter Challenge ... 22.99
Winter Olympics ... 22.99
Winter Supersports ... A500 or A1200 17.99
World Cup USA 1994 ... 17.99
World Cup Year '94 ... 19.99
Zool 2 ... A1200 17.99
Zool 2 ... CD32 19.99
Zool ... CD32 19.99

3.5" BLANK DISKS

	TDK/VERBATIM (BOXED) LOW	TDK/VERBATIM (BOXED) HIGH	PRECISION (BOXED) LOW	PRECISION (BOXED) HIGH	UNBRANDED (LOOSE) LOW	UNBRANDED (LOOSE) HIGH
10	7.99	9.99	6.49	7.99	5.99	6.99
20	14.50	19.50	11.99	15.50	10.99	13.99
50	35.00	47.50	26.00	37.50	23.99	32.99
100	65.00	95.00	49.99	72.99	44.99	62.99
200	125.00	190.00	94.99	141.99	83.99	121.99
500	300.00	470.00	219.99	350.00	199.99	287.50
1000	580.00	930.00	419.99	680.00	369.99	550.00

RECYCLED DS/DD LOW
10 ... 4.50 | 20 ... 8.50 | 50 ... 17.50 | 100 ... 35.00

SPECIAL OFFERS

Alien Breed 2 ... 12.99
Arabian Knights ... 9.99
Blues Brother ... 8.99
Body Blows ... 12.99
Brutal Football ... 10.99
Chuck Rock ... 10.99
Civilisation ... A1200 17.99
Kick Off 2 Final Whistle ... 7.99
Kick Off 2 Winning Tactics ... 5.99
Lemmings 2 The Tribes ... 12.99
Nick Faldo's Golf ... 12.99
Nigel Mansell's World Champ ... A1200 12.99
Sabre Team ... 9.99
Seymour Goes to Hollywood ... 6.99
Shadow Worlds ... 9.99
Soccer Kid ... A500/A1200 9.99
Thunderstrike ... 5.99
Utopia + New Worlds ... 12.99
Wing Commander ... 9.99
Zool ... A500/A1200 8.99
Zool 2 ... 10.99

EDUCATIONAL

ADI English ... (All Ages) ... 17.99
ADI French ... (All Ages) ... 17.99
ADI Maths ... (All Ages) ... 17.99
Better Maths ... (12-16) ... 13.99
Better Spelling ... (8-14) ... 13.99
Cave Maze ... (8-12) ... 10.99
Fraction Goblins ... (8-13) ... 10.99
Fun School 2 ... (<6) ... 6.99
Fun School 2 ... (6-8) ... 6.99
Fun School 2 ... (8+) ... 6.99
Fun School 4 ... (5-7) ... 16.99
Fun School 4 ... (7-11) ... 16.99
Fun School 4 ... (US) ... 16.99
Junior Typist ... (5-10) ... 10.99
Magic Math ... (4-8) ... 13.99
Maths Dragons ... (6-13) ... 10.99
Maths Mania ... (8-12) ... 13.99
Mickey's 123's ... (2-5) ... 13.99
Mickey's ABC's ... (2-5) ... 13.99
Mickey's Jigsaw Puzzles ... (5+) ... 13.99
Noddy's Big Adventure ... (3+) ... 16.99
Paint & Create ... (5+) ... 17.99
Picture Fractions ... (7-10) ... 10.99
Reasoning with Trolls ... 10.99
Tidy the House ... (6-10) ... 9.99

JUNIOR ADVENTURE

Robin Hood ... (8+) ... 13.99
Scrooge (A Christmas Carol) ... (8+) ... 13.99
The Three Bears ... (5-10) ... 13.99
Wind in the Willows ... (8+) ... 13.99
Wizard Of Oz ... 13.99

JOYSTICKS/ACCESSORIES

Analog Adaptor ... 4.99
Cheetah 125+ ... 7.99
Cheetah Bug ... 11.99
Competition Pro Extra ... 14.99
Disk Box (10 capacity) ... 1.99
Disk Box (40 capacity) ... 4.99
Disk Box (50 capacity) ... 5.99
Disk Box (80 capacity) ... 6.99
Disk Box (100 capacity) ... 7.99
Freewheel Steering Wheel ... 24.99
Gravis Advanced Switch Joystick ... 22.99
Gravis Gamepad ... 15.99
Mouse ... 10.99
Mouse Mat ... 1.99
Quick Joy Jet Fighter ... 11.99
Quick Joy Pedals ... 17.99
Quick Joy Top Star ... 17.99
Quick Joy 2 Turbo ... 10.99
Suncom Slik Stick ... 5.99
Suncom Tac 2 ... 7.99
Wico 'O' Stick ... 4.99

Light and shade



Paul Austin explains how to inject some style with the occasional still.

Most videographers assume that if an image is to appear on video it has to be animated. In fact, like any other artistic exploit, DTV productions can always benefit from a little light and shade.

If a project is solely comprised of a constant stream of ever-changing animated images, it can become rather monotonous – a brief glance at the average low-budget music video is testament to that.

If you're trying to make a point, during a documentary for example, stills are an excellent way of adding an authoritative news feel. Also, if you're an animator stills can be a very convenient method of stretching the production without forcing your system to expend a huge amount of effort on additional animated sequences.

Another obvious bonus is that stills often provide the only opportunity to display your creations as they really are, rather than being forced into a compromise – as is often the case when imagery is compiled into an anim format.

If you're the lucky owner of one of the many 24-bit display boards, stills may be the only method you'll ever have to show your work at its best.

Obviously some of the modes offered via the AGA come pretty close, but even with the best efforts of Ham8 there's still a noticeable difference between the two.

As I'm sure you're aware there are countless methods of importing images into the Amiga, but basically the process invariably boils down to either scanning or frame grabbing.

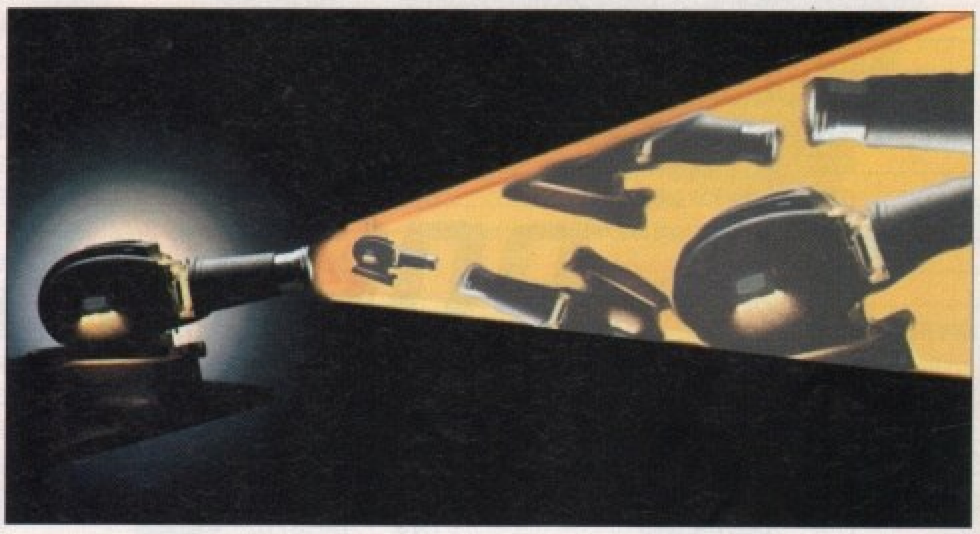
In the case of frame grabbing the conversion from live video to a still is relatively painless. As you're already dealing with a video legal image, there's no palette adjustment necessary to avoid the dreaded colour bleeding so often associated with composite video.

This is a regular problem when you're employing scanned images which contain colour saturations that exceed 192 or approximately 12 within the Amiga's colour register.

In simple terms this means you must be careful during selection. If you suspect an element of the image is over saturated check it out in a paint package and make the necessary adjustments before you compile.

Ideally it's always best to run rendered or scanned images through an image processor such as ADPro or ImageFX. Both packages allow you to apply broadcast saturation control operators which will ensure perfect results.

Even though the saturation levels are within the correct levels it's sometimes worth adding a keyline – especially to brightly coloured logos and text to ensure they don't bleed in later tape generations.



This can be done very easily via Dpaint's outline function which applies a user-defined outline in the colour of your choice around the selected brush. If you do decide to use this option always opt for a dark – preferably black – outline colour

BLURRING

Even though video grabs are " colour legal" it doesn't mean they're completely free from harm. One of the most frequent grabbing disasters is image blur, a phenomena which is usually accompanied by a horrendous amount of interlace flicker.

This happens all the time when dealing with fast action. Fortunately there is an answer, which although not ideal is a lot better than the migraine-inducing effect of a particularly flickery grab.

All the main image processing programs such as ADPro, Image Master and ImageFX offer a de-interlace option as standard – and it's also fairly likely that the software used to grab the image will offer a similar feature.

Because all video images use two alternating fields to effectively double the resolution of the image, interlace flicker is something you have to come to terms with.

In affect, de-interlacing divides the two signals into their respective fields. As a result the flicker between the two is removed – but alas this inevitably means you lose half the original resolution.

Therefore, always remember to double the height of a de-interlaced image before adding it into a sequence.

If we assume the images are ready for video and in the correct proportions – interlace with maximum overscan – it's time to add them to the production. There are several ways to achieve this, with perhaps the most impressive being Scala – which can introduce stills with a variety of wipes and fades.

If your finances won't stretch to Scala you could employ a PD picture viewer or, even better, load them into View 3.6 – an excellent anim player and picture viewer which is widely available in the PD

With this program it's possible to compile several images into an anim and play them back frame by frame thanks to the program's single frame advance feature.

When a series of stills are combined with a genlock the results can be stunning, especially if the stills are from the actual video on display. Now you can employ the classic TV trick of "echoing". How often do we see a still frame flashback of an athlete frozen for posterity while titles or information pop-up on-screen...

You can do the same, constantly flashing back to the high spots of any event, perhaps with a voice-over adding to the atmosphere.

Listen to me

Narration is another great reason to employ stills. If you have a mixture of live video, computer graphics and music it's very difficult to add a voice-over without confusing the viewer.

Once again the still can provide a quiet moment where an important voice-over can be introduced and, more importantly, absorbed by the viewer.

Apart from sporting flashbacks, perhaps the best place for such effects is within documentary-style productions. If you're working for a client who wants to establish a corporate ID, nothing impresses more than the occasional still of the boss or a panoramic wide-angle shot of the new offices.

Finally, no matter what the subject or style of your show, a genlock is a near essential for a professional finish. Although direct exposures are useful – echoes being an example – the option to fade stills up or down through live video really adds to the production.

AUDITION COMPUTERS LTD.



Established 1988

Free 50 Disk Labels with every Order — **Computer Goods Fast**

Disks & Boxes

25 Bulk DSDD inc Labels	£10.00
50 Bulk DSDD inc Labels	£18.50
100 Bulk DSDD inc Labels	£35.00
10 Precision branded	£5.99
10 TDK branded	£7.99
60 x 4 Colour Labels	£1.00
200 x 4 Colour Labels	£2.00
10 Holder Disk Box	£0.95
20 Holder Disk Box	£2.99
50 Holder Disk Box	£3.99
100 Holder Disk Box	£4.49
100 File Drawer	£8.99
200 File Drawer	£11.99

All disks are guaranteed 100% Error Free

Accessories

Rocgen Plus Genlock	£99.99
TecnoPlus External Disk Drive	£49.99
Quality Grey Mouse Mats	£2.99
TecnoPlus Mice (280dpi Micro switched)	£12.99
Automatic Joystick/Mouse Switch Box	£12.99
3 Metre Joystick or Mouse Extension Lead	£5.99
Amiga Analogue Adapters - use PC J/S on Amiga	£5.99
"X Lead" Extends Mouse & Joystick Ports 6"	£5.99
"Y Lead" Plus Mouse & Joystick in 1 Port	£5.99
Joystick/Mouse Automatic Switch Box	£7.99
Aerial Switch Box	£3.99
2 Metre Amiga to Stereo Lead	£2.99
5 Metre Amiga to Stereo Lead	£5.99
3.5" Disk Drive Head Cleaning Kit	£2.99
Printer Stand (fits most printers)	£7.99
Surge Protection Plug	£11.99
Amiga A1500/2000 - 80Mb GVP Hard Drive	£199.99
Amiga A1500/2000 - 120Mb GVP Hard Drive	£299.99
Miracle Keyboard/Tutor	£274.99

Dust Covers

Top Quality, Colour Co-ordinated, Tailored Dust Covers

Citizen Swift Printers	£4.99
Philips Monitor	£4.99
Amiga A1500 - 2 part cover	£8.99
Star LC20 or 100 Printer	£4.99
Star LC200 Printer	£4.99
Star LC24/200 Printer	£4.99
A600 Control Centre Cover	£8.99

Printers

Citizen Swift 90 Colour 9 Pin Printer	£154.99
Citizen ABC Colour 24 Pin Printer with ASF	£169.99
Citizen Swift 200 Colour 24 Pin Printer	£189.99
Citizen Swift 240 Colour 24 Pin Printer	£229.99
Parallel Printer Cable	£7.99
Citizen Swift 9 pin Black Ribbon	£4.00
Citizen Swift 24 pin Black Ribbon	£5.00
Citizen Swift Colour Ribbon	£16.50

All Printers come complete with driver software

Control Centre

Manufactured to the highest standards from Sheet Steel, Epoxy coated to colour match the Amiga. Precision made to fit over the back of your Amiga to make a perfect platform for a monitor with a shelf for a disk drive etc. underneath

Amiga A600 Model	£29.95

Educational

Fun School 2 - ages Over 8s	£7.99
Fun School 3 - ages Under 5s	£11.99
Fun School 3 - ages 5 to 7s	£11.99
Fun School 3 - ages Over 8s	£11.99
Fun School 4 - ages Under 5s	£12.99
Fun School 4 - ages 5 to 7s	£12.99
Fun School 4 - ages 7 to 11s	£12.99
ADI Junior Counting ages 4/5	£9.99
ADI Junior Counting ages 6/7	£9.99
ADI Junior Reading ages 4/5	£9.99
ADI Junior Reading ages 6/7	£9.99
ADI English ages 11/12	£9.99
ADI English ages 12/13	£9.99
ADI English ages 14/15	£9.99
ADI French ages 11/12	£9.99
ADI French ages 12/13	£9.99
ADI French ages 13/14	£9.99
ADI Maths ages 11/12	£9.99
ADI Maths ages 12/13	£9.99
ADI Maths ages 13/14	£9.99
ADI Maths ages 14/15	£9.99
Better Maths 12/16	£12.99
Primary Maths	£12.99
Micro English (GCSE)	£17.99
Mega Maths (A Level)	£17.99
Micro German (GCSE)	£17.99
Micro Science (GCSE)	£17.99
Reading and Writing - ages 3 to 8	£17.99
Alvin's Puzzles - Kids' Academy	£17.99
Noddy's Big Adventure	£18.99
Mickey's Memory Challenge	£13.99
Mickey's ABC	£13.99
Playroom - ages 3 to 8	£14.99
Maths Adventure	£11.99
French Mistress	£9.99
Answer Back Senior Quiz	£9.99

Fact File 500s (for above) BUY 2 GET 1 FREE

Sport	£8.99
Spelling - 6 to 11	£8.99
20th Cent History - 12+	£8.99
World Geography - 11+	£8.99
General Knowledge Jnr	£8.99
General Knowledge Snr	£8.99
Know Scotland - 12+	£8.99
Know England - 12+	£8.99
First Aid - 12+	£8.99
Arithmetic - 6 to 11	£8.99
Association Football - 12+	£8.99
Natural History - 10+	£8.99
Super Sports - 14+	£8.99
English Words - 12+	£8.99
General Science	£8.99

Software

Amos - The Creator	£29.99
Amos - Compiler	£17.99
Amos - Professional	£29.99
Pen Pal	£27.50
Final Copy	£79.99
Final Writer	£97.99
Pagesetter V3	£39.99
Photon Paint	£9.99
Directory Opus	£42.99
Deluxe Paint 3	£9.99
Media Show	£39.99
TV Text	£24.99
Home Accounts 2	£34.99
Money Matters	£49.99
Gallery Database	£9.99
Cashbook Controller	£19.99
Techno Sound Turbo v2	£34.49
Super Jam	£19.99
Quarterback	£39.99
Audio Sculptor	£19.99
Midi Connector	£29.99
Mega Mix Masters	£39.95
DSS8 Digital Sound Sampler	£34.95
Digita Final Accounts	£35.99
Video Grabber & Sound Sampler in one	£39.99

Books

Amiga Intern	£32.95
Amiga A600 Insider Guide	£12.95
Amiga A1200 Insider Guide	£12.95
Amiga A1200 Beginner's Pack (2 Books & Video)	£39.95
Amiga Next Steps	£14.95
Amiga Dos Quick Ref	£8.95
Amiga Dos Inside & Out rev	£23.95
Amiga Graphics Inside & Out	£29.95
Amiga Dos 2 Companion	£22.99
Advanced Amiga Basic	£14.99
Amiga Made Easy	£12.95
Amiga Desktop Video Workbook	£29.99
Amiga Dos Ref. Guide 3rd Ed	£17.95
Best of Amiga Tricks & Tips	£24.95
Computes 2nd Book of the Amiga	£16.99
C: A Dabhand Guide	£14.95
Deluxe Paint 4 - Tutor VIDEO	£14.99
Inside Amiga Graphics	£16.99
Kids and the Amiga	£15.95
Making Music on the Amiga	£29.95
More Tricks and Tips	£14.95
Practical Amiga Programmer's Guide	£19.99
Printers Inside and Out	£29.95
Mastering Amiga Dos v3	£20.95
Mastering Amiga Printers	£19.95
Mastering Amiga Dos Vol 2	£21.95
Using Arexx on the Amiga	£29.95

Amiga CD32

Many CD32 Titles in stock please call for details

Karaoke Mixer with Microphone - Connect to your CD32 and sing along to your favourite music CDs	£49.99

We also carry a range of Karaoke CDs with the words. Just like you see in the pubs! Please call for details.

AUDITION COMPUTERS LIMITED

MAIL ORDER DEPARTMENT
35 BROAD STREET
STAMFORD
LINCS PE9 1PJ

MAIL ORDER HOTLINE
0780 55888

Access · VISA · DELTA · SWITCH

Pay by Credit Card for Immediate Despatch
(subject to security clearance)
Minimum order £15.00
Delivery Charges: Economy £2.00
Express £7.50
Post Cheque or Postal Order made out to **"Audition Computers Ltd"** along with your Name, Address, Telephone Number and Details of your Order, to the address alongside.
All Prices include 17.5% VAT. E&OE
Offers subject to availability

An editing nightmare!

Paul Overaa explains about an Amiga drum and percussion sequence editing horror that's rattling some Midi users



Be wary if buying a second-hand drum machine. Some, like Yamaha's RX21, cannot have their voice settings reconfigured

Percussion instruments include everything from bass drums and tambourines, right through to the more obscure instruments such as the cabasa. Namely everything you 'bash' to play!

One might think that creating a drum accompaniment for a song played on a multi-timbral synth would just involve selecting suitable drum sound voices.

In fact it isn't quite that straightforward because, set up in the conventional way, a multi-timbral synth would only be able play one voice per channel.

Even if you only wanted a bass drum, a snare drum, open and closed hi-hats, a couple of toms and a cymbal, you'd use seven channels and a large chunk of your multi-timbral capabilities.

The solution involves adopting an arrangement whereby all percussion events are sent on just one channel, with the note value being used to indicate which particular percussion voice should sound.

Some synthesizers and expanders have a special drum channel assigned for this purpose but if you take the hardware that can do this, add some touch-pads which act as drum keys, incorporate memory for storing drum patterns and finally add some software which permits the creation and editing of rhythm patterns, you end up with a unit called a drum machine.

Why mention these? A great many synthesizers, especially those slightly older models, do not have any special drum/percussion facilities. Because of this, you might need a drum machine in order to add drum/percussion sounds to your song arrangements.

As far as the recording and playing back of percussion tracks is concerned, it is much the same as recording or playing back ordinary synthesizer data, although there are a couple of things to bear in mind.

Transposing

Firstly, you must not transpose drum channel data because if you change the note values you'll change the actual percussion voice being played.

The effect of inadvertently transposing a drum part will sound disastrous on playback – recorded bass drums might turn into cymbals, the snare drum might vanish and so on.

Obviously it is something that is easily fixed by re-transposing the data back into its original key, thereby restoring the original note values. Some sequencers (Dr T's KCS for instance) allow you to "protect" a specified Midi channel from transposition for this very reason.

The second thing which needs to be pointed out is that drum machines (or integral synthesizer percussion facilities) vary enormously in the number of different percussion sounds they can provide.

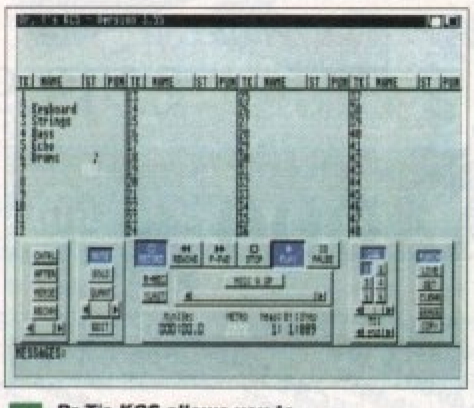
Up until fairly recently, there was little standardisation between different manufacturers as far as which note numbers would represent which drum sounds.

General Midi (GM) has improved matters here because it has defined a set of standardised note-drum-voice correspondences that are always used on Midi channel 10 (the GM designated percussion channel).

If you've been involved with Midi for some time and have built up a large library of sequence material, there's a potential problem looming.

In order to make the most of commercially arranged song and sequence library material, you need to have your drum machine set up for the GM drum note correspondences because most of this material is provided in GM compatible Midi file format nowadays.

However, in order to play your existing material, you will still need your percussion unit set up to provide the drum note correspondences that you originally used.



Dr T's KCS allows you to 'protect' a specified Midi channel from transportation

What can you do? Firstly, you can opt to keep changing the drum note correspondences you use. Secondly, you can remap all the GM sequence material that you obtain so that it corresponds to your original drum note mappings. Or lastly, you can remap all your existing sequence data so that it then conforms, as near as possible, to the GM arrangements.

Obviously the best long-term solution is the last one because this will bring your Midi set-up into line with what has now become a firmly established voicing scheme.

Incidentally, many older drum machines (such as the Yamaha RX21) have fixed note drum-voice correspondences which you cannot alter.

Avoid these like the plague when searching for second-hand bargains and whatever you decide to buy, do make sure that the drum machine's notedrum-voice settings can be re-configured.

Can you help?

Most Amiga sequencers provide editing facilities that can be used to remap notes on a particular channel, but when you've got possibly hundreds of sequence files this sequencer editing approach to drum part remapping is both time consuming and error prone.

Moreover, many people nowadays tend to store their sequences in Midi file form, so what we really need is a "configurable" drum track remapping utility that can work directly on Midi files using source and destination drum map information supplied by the user.

I've never been able to find a utility like this, so at this point I'm asking two favours. Firstly, write and let me know if you've ever come across such a utility (so that I can tell everyone else about it).

Secondly, write and let me know if you would find such a utility useful – if there's sufficient interest I'll write one and put it on the cover disk.

Navigation bearings



Phil South looks at two new books on the Internet from Osbourne/ McGraw Hill.

Even the seasoned Internet Navigator gets lost from time to time. At such times you really need something to reach for – a bucket would be nice – especially if you've been on the Usenet alt.tasteless newsgroup for too long.

No, I'm thinking of a reference guide, something which would tell you all the stuff you need to know and fill in the gaps in places where you learned only what you had to know to get the job done.

Okay, so there are some on-line texts, like the Big Dummy's Guide to the Internet from EFF and Brendan Keyhoe's Zen and the Art of the Internet, but they are pretty technical, and if you don't know where they reside how can you get them and read them?

Fortunately for you and I there are some books around which give you a comprehensive guide to what's what, and I've been scouting around for some good ones.

Most Internet books, in common with a lot of computer books, are American and dry as old toast. They are big thick books with 16 billion pages and full of lists of arcane UNIX commands, most of which you wouldn't ever need, unless of course you intend setting yourself up as an Internet service provider.

DUPLICATED

I did happen across two books which were readable, even funny in places, and full of information. Sadly, as they are written by the same guys, a lot of the information is duplicated in each book, so it's an either/or situation. Buy one or the other, not both. The books in question are The Internet Yellow Pages and The Internet Complete Reference, both by Harley Hahn and Rick Stout.

To be sure, The Internet Complete Reference (TICR) is a forbidding sight, all 818 odd pages of it and about an inch and a half thick. It looks like the sort of book you wouldn't like to enter without stout walking boots and a full pack of sleeping gear and nosh. Surprisingly however, from the first page you are drawn in Harley Hahn's little world within the Internet. The style is warm and friendly, and yet not lacking in technical detail.

This is the technical detail book, and is where you can learn to hot-wire the Internet from scratch using only a simple terminal program.

Obviously things have moved on since then with a lot of graphic user interfaces coming along in the last six months, so a lot of this stuff is academic.

But you know, I like to know this stuff in case I ever find myself without my Amiga and a copy of Amiga Mosaic. You never know. And it is the complete reference after all, so if you ever need to know how to set the maximum number of hits in an Archie search, and don't want to look a dork on the Net by having to ask, you can look it up here. (Chapter 17 p337, if you must know.)

As for The Internet Yellow Pages, now this is where it gets interesting. The second half of TICR is a catalogue of resources on the Internet, and some bright spark thought it would be swell to peel that off the book and sell it as a new book – suitably rewritten and augmented of course.

This, like most bright spark ideas, was a flipping blinder, as this is one of the best books about the Internet you can buy. It's funny, interesting, occasionally mind blowing, but always readable and useful.

It's solved a few of my immediate problems already, like how to find an e-mail address when you can remember it (p159), where is the locksmithing newsgroup on Usenet (alt.locksmithing), and where can you get a high grade source of dirty limericks (quartz.rutgers.edu).

It's a great book and one which is never far away from my hand. It's that rare thing, a reference book you also read for fun.

Which to buy

If you only buy one of these books then go for the Yellow Pages, but if you want technical info and can find your own resources, then go for TICR. If you're rich and want to have everything that's the best in it's field, then buy both.

Internet watch

For those of you that don't have, or intend to buy, the Internet Yellow Pages, (poor misguided souls) here is this month's dip into the Internet. I've been spending the last month looking up friends I only ever talk to via e-mail. One such figure is Steve Roberts, tech nomad. You know, the guy who used to ride around America on his recumbent bike loaded down with Sparcstations and Macs?

Well, Steve's next project is the MicroShip, an ocean-going version of his computer bike. To get updates on the MicroShip project, which is drawing to a close, use a World Wide Web server or client program to access:

```
2l = microship.ucsd.edu
```

or:

```
http://microship.ucsd.edu
```

Steve has put some text and pictures of the project for all to see.

Our second service station on the Infobahn is outer space. Yes folks, if you need to know how to make your own flying saucer it's all here on the Internet. Simply FTP to:

```
ftp.spies.com
```

and go to the directory:

```
/Library/Fringe/Ufo/build.ufo
```

There you will find all the info you need to make your own mode of transport that not only gets you from A to B faster than the speed of light, it also makes nifty crop circles as it takes off.

And finally, do you have a question on a range of subjects as diverse as lock picking, comics, Disney, roller coasters and how to make Vodka? You need a frequently-asked questions listing. All the FAQ lists from Usenet can be found either by joining the:

```
alt.answers
misc.answers
news.answers
```

and other similarly named Usenet groups, or download your favourites by FTP from:

```
rtfm.mit.edu
```

in the directory:

```
/pub/usenet/news.answers
```

and then you don't have to wait for each list to be posted to the group!

Contacts

See your local bookseller for both these items:

The Internet Yellow Pages
(Osbourne/McGraw Hill 1994)
By Harley Hahn and Rick Stout
ISBN 0-07-882023-5

The Internet Complete Reference
(Osbourne/McGraw Hill 1994)
By Harley Hahn and Rick Stout
ISBN 0-07-881980-6

Buttons galore

Phil South looks at 3D buttons and how to construct them.

Making Amos programs that really sing off the screen at you has always been problem numero uno. Regular correspondent and Amos hacker Malcolm Lavery has come up with this neat idea which deserves a look, and it's all about the making and using of 3D buttons. Let's go through his listing with a fine toothed comb.

Firstly we round up the usual suspects, setting up the screen and palette nonsense:

```
Screen Open 0,640,256,16,Hires
Palette
$0,$FFF,,,$CCC,$EEE,$999,$333,$88F,$A00,$800,$A0
,$80,$A,$8
Curs Off : Cls 0 : Flash Off
Limit Mouse 0,0 To 640,500
```

The limit mouse thing is to stop the mouse co-ords screwing up, and if you intend doing any mouse co-ords stuff I recommend you reset them first before use. Next we need to reserve some zones:

```
Reserve Zone 10
```

Obviously there is one zone for each button you wish to create. Then we call the 3D Button procedure to create our buttons:

```
_3D_DISPLAY[0,0,640,10,0,8]
_3D_DISPLAY[0,11,640,250,0,6]
Ink 0,8
Text 3,7,"FILE:Df0:3D_Buttons_Demo"
_3D_BUTTON[1,20,20,200,10,0,"PRESS",6,0]  _3D_BUT-
TON[2,20,40,200,10,0,"And press here!",6,0]
_3D_BUTTON[3,20,60,600,20,0,"Any size buttons can
be drawn",9,1] _3D_BUTTON[4,20,90,470,150,0,"BIG
BUTTON",11,0]
_3D_BUTTON[10,520,225,100,20,0,"QUIT!",6,0]
```

How this works is detailed later on. Then of course we set up a control loop, testing for mouse clicks and routing the info to the buttons:

```
Do
TEST=Mouse Zone
TESTTWO=Mouse Key
If TESTTWO=1 and TEST=1 _3D_BUT-
TON[1,20,20,200,10,1,"PRESS",6,0]
Bell
Wait 10
_3D_BUTTON[1,20,20,200,10,0,"PRESS",6,0]
End If
'
If TESTTWO=1 and TEST=2 _3D_BUT-
TON[2,20,40,200,10,1,"MAGIC",6,0]
Bell
Wait 10
_3D_BUTTON[2,20,40,200,10,0,"And press here!",6,0]
End If
'
If TESTTWO=1 and TEST=3
_3D_BUTTON[3,20,60,600,20,1,"Big and fat is this
button!",10,5]
Bell
Wait 20
_3D_BUTTON[3,20,60,600,20,0,"Any size buttons can
be drawn",9,1]
End If
'
If TESTTWO=1 and TEST=4 _3D_BUT-
TON[4,20,90,470,150,1,"ON!",12,0] Bell
Wait 20 _3D_BUTTON[4,20,90,470,150,0,"OFF!",11,0]
End If
'
2I = If TESTTWO=1 and TEST=10
_3D_BUTTON|10,520,225,100,20,1,"BYE
BYE!",8,0| Bell
Wait 100
Fade 5
Wait 100
Edit
End If
'
Loop
```

The tests check each button and if the test is true then the text on the button will change. Usually a bell will sound to indicate that your button has been pressed.

Finally we have the procedures which create and use the buttons. _3DBUTTON gives you a zone number, x,y co-ords for the top left corner, height and width from that corner, IN_OUT which is a flag to see if the button is in or out, the text to be inserted on the button, and the background and ink colours. It's a comprehensive little proc, and very well done to Malcolm for figuring it out.

```
Procedure
_3D_BUTTON[_ZONENUMBER,X,Y,WIDTH,HEIGHT,IN_OUT,
TEX$,_FILL,_INK] '
```

First we test the length of the text:

```
LE=Text Length(TEX$)
X_TEXT=X+WIDTH/2
Y_TEXT=Y+HEIGHT/2+3
```

This next bit is the flag for the in or outness of the button in question:

```
If IN_OUT=0
HILIGHT=5
SHADOW=7
End If
'
If IN_OUT=1
HILIGHT=7
SHADOW=5
End If
```

Then we draw the shadows and highlights:

```
Ink HILIGHT
Draw X,Y To X+WIDTH,Y
Draw X,Y To X,Y+HEIGHT
'
Ink SHADOW
Draw X+WIDTH,Y To X+WIDTH,Y+HEIGHT
Draw X+WIDTH,Y+HEIGHT To X,Y+HEIGHT
```

And fill the button:

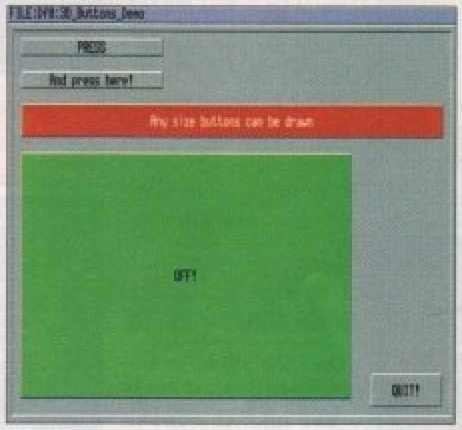
```
Ink _FILL
Bar X+1,Y+1 To X+WIDTH-1,Y+HEIGHT-1
```

Then we insert the text as graphic text:

```
Gr Writing 0
Ink _INK
Text X_TEXT-LE/2,Y_TEXT,TEX$
Gr Writing 1
```

and finally set up the zone:

```
Set Zone _ZONENUMBER,X,Y To X+WIDTH,Y+HEIGHT '
End Proc
```



System legal file requesters for Amos are no longer a dream

Next we have the _3D_DISPLAY proc, which provides 3D backgrounds for your 3D buttons. No need for zones here, as these are simply static boxes.

```
Procedure
_3D_DISPLAY[X,Y,WIDTH,HEIGHT,IN_OUT,_FILL] '
'
If IN_OUT=0
HILIGHT=5
SHADOW=7
End If
'
If IN_OUT=1
HILIGHT=7
SHADOW=5
End If
'
Ink HILIGHT
Draw X,Y To X+WIDTH,Y
Draw X,Y To X,Y+HEIGHT
'
Ink SHADOW
Draw X+WIDTH,Y To X+WIDTH,Y+HEIGHT
Draw X+WIDTH,Y+HEIGHT To X,Y+HEIGHT
'
Ink _FILL
Bar X+1,Y+1 To X+WIDTH-1,Y+HEIGHT-1
'
End Proc
```

And there it is. A simple program, illustrating a few cardinal rules of Amos. Make a small program which automates a task and work outwards from it. Although I'm still not sure about Procs from the standpoint of larger programs, in small programs they are no slower than taking the sub-routine route, so it's good either way.

Once again a neat proggy from Malcolm, and thanks for that.

Any more brillo Amos code heads out there want to blind us with their genius? Hmm, I thought so.



Write stuff

If you have an Amos question, or a routine you'd like to share with the world, then please write to Phil South, AMOS Column, Amiga Computing, Europa House, Adlington Park, Macclesfield, SK10 4NP.

Amiga CD32

Express Pd

Quality PD & Shareware

Magazine Business Centre, 11 Newarke Street, Leicester LE1 5SS
Tel: 0533 559711 Fax: 0533 470118
Monday-Friday 9am-6pm, Saturday till 2pm

This month latest PD

Complex Real AGA
Aktion Replay Pro AGA
Vino Checker 6.41
Klondike AGA Card Sets (5)
Imagine 3D Images (7)
Cybertech Corp (2) AGA
Air Wars (2)
X-Password
JPM's AGA Pics (5)
Sonic Drum Kit
Mechanetix Slider AGA
Deluxe Galaga
Panaramic Studio
Video Tracker v1.34
Video Tracker Data (2)
Sensible Massacre
Red Dwarf Slider AGA (2)
Diggers
Raging Fire AGA
Virtual Journey AGA
Imagine Video Collection (2)
Infect Harmadegeon AGA
Runaway Brain AGA
Brainstate in a Box AGA
Qed 2 AGA (2)
DMS Pro v2.01
Lamertron 1200
Fantasy Football League 1994/95
AGA Icons
Faculty - Lethal Dose 2 (2) AGA
Movement - Mina Omistan AGA
Ramjam Take the Difference (2) AGA
Mystic Vital AGA
Nora SOHO AGA

All of the above are on the Express PD Galore CD!

F1 Licenceware

We stock disk F1001 to F1026. New disk added on day of release. Prices from £3.99 to £6.99. Full details on catalogue disks

Nothing But Amos

Disk Magazine
Issue 6 now in stock
On 2 disks £4.50

CD Software

Save 5% when you buy 3 or more!

Lock 'n' Load – 1000 PD Games and more – £18.99

Gold Fish – Double CD Fred Fish 1-1000 – £26.99

Multimedia CD – Clipart Images etc – £19.99

Fresh Fish – June / July Submissions – £18.99

17 Bit Collection	£35
17 Bit Continuation	£18.99
CD Exchange	£19.99
Network CD	£34.99
Demo 2 CD	£18.99
CD PD 2,3	£18.99each

Aminet Vol 3 – Latest update from the Aminet site – £18.99

Euroscene 1 – Similar to Aminet CD – £14.99

Disk Prices
1-15 Disks – £1.05 each
16-24 Disks – £1.00 each
25+ – 95p each

Post & Packing: UK 60p
UK Recorded Delivery £1.25
Europe £2.50, ROW £3.00

Over 5200 PD in stock, order catalogue disk for £2 on 3 disks. All orders despatched same day or next working day

Express PD Galore

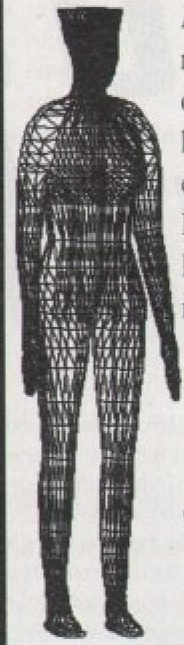
New CD ROM for the Amiga CD32 200 AGA Disks, 250+ latest PD Disks Assassins Games 1-185, Aminet 1-26. These are stored as DMS file and require a floppy drive to unpack on to disk a menu system and index file with search file is include some of the games from the Assassins 1-185 can run direct off the CD without packing them on to disks. From WB you can access the Top 100 PD games, 100 Music modules, latest Utilities, Quality Demos section and AGA section which includes AGA Games, AGA Utilities, Quality Demo section such as Quite Unused, but movement etc. these are not available on disk due to the size of the demo CD is OK on the CD32. Jaypad and CDTV

Don't delay Order Now Only £19.99

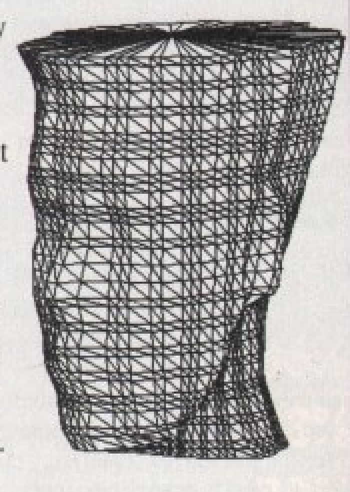
KYTE

3D Objects

Compatible with all versions of Imagine



A set of stunningly realistic humans created with the help of a 3D object digitiser.
Both Male and Female at 3 resolutions to suit 2Mb, 4Mb or 6Mb memory configurations.



Over 16000 points for £35 inc VAT & P&P.
Send S.A.E. for more information.

For information and orders, please send SAE, cheques or POs to:

Kyte Products, Dept C, 45 St Ladoc Rd, Keynsham, Avon. BS18 2DR.

Please allow 6 working days for cheque clearance.

Telephone: 0272 400 805 (9am – 5pm)

Parallel port fitting real time clock still available at £15.
(Amiga Shopper 91%)
More details on request.

NORTHERN AMIGA USERS GROUP

Dept AC3, P.O. Box 151, Darlington, County Durham, DL3 8YT England
Tel. (0325) 352260
E-Mail: bux8@unn.ac.uk

– PD Software 99p per Disk – Postage 50p per Order –

Latest Utilities

U076 WB3 Hard Drive Installation Disk [WB3]
U108 PC <> Amiga V2.3
U137 N-Comm V3.0 [WB2+]
U138 Canon Printer Studio V1.2
U184 A600 HD Install Disk
U200 Sprectrum Emulator V1.7
U205 Text Engine V4.1 [WB2+]
U219 SKick Pro V3.21 [WB2+]
U227 Magnum v1.9
U230 Tools Daemon V2.1 [WB2+]
U239 REORG v3.11 [WB2+]
U251 PC-Task IBM Emulator v2.03 [W2+]
U273 Cross-Dos Plus v5.06 [WB2+]
U279 KickStart v1.4 [WB2+ only]
U289 AGA Screen Blanker v1.01 [AGA]
U302 Viewtek v2.01 [WB2+]
U305 Address Print v4.0 [WB2+]
U309 HD Games Installer
U310 Varks CLI Utils v4
U316 DMS PRO v2.02 [WB2+]
U317 Action Replay PRO [AGA]
U319 SID Pro v2.01A [WB2+]
U325 EDWord Pro v4.1 [1Mb] [WB2+]
U326 Test Plus Pro v5.01 [2Mb] [WB2+] [HD]
U328 SuperDuper v3.1 [WB2+] [WB2+]
U336 Epoch Master V [WB2+]
U340 Video Tracker AGA v1.34 [AGA]
U341 Video Tracker Data Disks [4 Disks]
U352 Magic WB v1.2P [WB2+]
U353 X-Password [WB2+]
U355 Stereoscope v2.4A (RDS Generator) [WB2+]
U356 Magic User Interface v2 [WB3]
U357 CD32> CD Rom Games
U359 Teletext v1.20 (inc Diagrams) [WB2+]
U361 Kids DTP v2.6
U362 Kids DTP Xtras
U363 XPK Compression Package v2.5 [WB2+]
U370 Assigns v1.1/Assign Manager [WB2+]
U373 Essential Aminet vol. 1 May '94 [2D] [WB2+]
U374 BootX v5.23 with NEW v2.16 Recog File [WB2+]
U375 Magic Menu v1.9 [WB2+]
U376 Powercache v37.115 [WB2+]
U377 Essential Aminet vol. 2 June '94 [2D] [WB2+]
U378 HD Click v2.60 [WB2+]
U379 Desktop Magic v2.0 [WB2+]
U380 Disk Cataloguer v2.7 [WB2+]
U381 Vark's CLI Utilities v5
U382 Essential Aminet vol. 3 July '94 [2D] [WB2+]
U383 Virus Workshop v3.80 [WB2+]

Latest Demos

D055 Spaceballs "State of the Art"
D067 A1200 "Point of Sale" Demo AGA
D082 Last Stand on Hoth Animation [4D]
D088 Madonna SEX Digi-Pics [3 disks]
D091 Mean Machine CD Anim [4D] [4Mb]
D093 Smells like Channel No. 5 AGA
D095 Spaceballs "9 Fingers" [2 disks]
D099 Complex "Origin" AGA [2 disks]
D100 Virtual Dreams "Full Moon" AGA
D101 Noxious "Beyond Belief" AGA
D102 Xanadu "Explicit 2" AGA
D103 Team Hoi "AGA III" [AGA] [3D]
D104 Rednex "Empty Head" AGA
D105 Silents "Snozzled Sommersault"
D106 Vivid "Abstract Pig" AGA
D108 Sceptic "Agatha" AGA
D109 Investation "Ray World" AGA [3D]
D112 Axis "Big Time..." AGA [2D]
D113 Kefrens "Interchange" AGA
D114 Lymex "Wind it up"
D115 Mystic "Vital" AGA
D116 Polka Bros. "Friday at 8" AGA
D117 Perspex "Hypnosis" AGA [2 Disks]
D118 Nova "Sorry" AGA
D119 Andromeda "Mirror" [2 Disks]
D120 Small is Beautiful Demo Comp. [2 Disks]
D121 Cryptoburners "Crash Test"
D122 Complex "Real" AGA - Brilliant!
D125 Ram Jam "Taste the..." AGA [2D]
D126 Andromeda "Sequential"
D127 Oxygene "Cuzco" - Excellent!
D128 Mina Omistran AGA - Get it!
D129 Talent "QED 2" AGA [2D]

Other Bits

A055 Bodyshop V AGA [2D]
A066 Bodyshop 6A AGA [2D]
A067 Bodyshop 7 AGA [2D]
Grapevine 19 [3D]
Deadlock 8 Disk Magazine
Channel Z #5 [2D]
Upstream Disk Mag #8
N.A.U.G. PD Disk Magazine Example
Assassins Game 1 - 185
26 Disks of CG Fonts
50 Disks of Professional Sound Samples

Send an SAE for our user group information brochure or disk pack compilation info sheet.

EPU Stakker v1.62

EPU Stakker is the most powerful PD Disk compressor. This version comes with an installer that allows you to choose a device/disk, select the relevant compression library of your choice and then compress your device automatically on the fly. Increase your hard drive capacity by up to 50%!! Very easy to use with NEW graphical interface. Buy it now and save yourself £££s!

- With FULL instructions
- Workbench 2+
- Compress Floppy/Hard Disks

Only 99p!

How to Order:

Choose the disks you would like, making sure they are compatible with your machine, and send the list with the relevant amount to the address at the top of the page.
Make all Cheques or Postal Orders payable to:

NORTHERN AMIGA USERS GROUP

EEC Orders add 10% to Total Order
Rest of the World add 20% to total order

AMIGA COMPUTING

ADVERTISERS' INDEX

The style council

PUBLISHING



A document must have words. Ben Pointer shows how to add a bit of flair to your text

Last month we set up everything to do with paragraphs for an entry in our Final Writer style sheet. Now we'll complete the style by adding tab settings and the type details.

Load the document we saved at the end of last month's article and get the Main Styles requester on to the screen by selecting Layout/Define Style/Main.

In the Style Names list, click the Body style we created previously and then the Define gadget under the Tab Settings heading over on the right.

At the moment there are no tab settings. If you don't need tab settings for this style, then you don't have to worry about this requester; Final Writer has a default tab distance of half an inch, and you can alter this in the Project/Preferences/Document Items requester.

The important fact to remember about tab settings is that the position is measured as a distance from the left-hand margin setting, not from the exact left of the page.

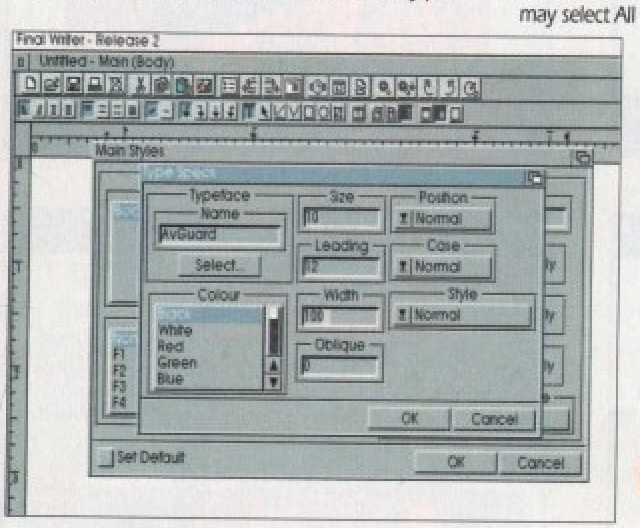
To set up a tab position, first hit the New gadget, decide what type of tab it is, then enter the position. You can have as many of each type of tab as you like, but be careful not to specify the same position for two types – for example, if you have a left tab set at 2.0 and a centre tab set at 2.0, then the second one in the list will never be used.

Notice that as you enter position figures, the list automatically sorts itself into left-to-right order of distance across the page.

Select OK to accept your tab settings, then select define under the type settings heading. This requester is where you get to choose a typeface and type style.

HIt the select gadget under the typeface name heading. Final Writer will put up its font requester which defaults to its own FWFOnts/SWOLFonts drawer. (You may alter this in the Final Writer icon's ToolTypes.) Select a font and click OK.

Beneath the typeface name gadget is the colour list. You'll probably want the main body to be black, but for other styles you may want to select a colour. If you don't own a colour printer you will need to experiment with these colours to see how they print in mono. Despite what they say, size is important. Body copy is normally anything between eight point and 11 points. Magazines, for example, are generally set in 9 or 10 point, books are usually 11 point, or perhaps 12 point if the typeface is a 'small' one.



For good readability leading should be about 120% of the point size – so 10 point text is good with 12 point leading (written down as 10/12pt). Note that the leading size includes the size of the typeface, so 10 point text with 12 point leading means there is two points of space between the lines.

NEW SLANTS

The Width gadget enables you to condense or expand a typeface. For body copy it is better to buy a typeface which has been specifically designed as condensed or expanded, but for quick special effects – in headings for example – make good use of the Width gadget.

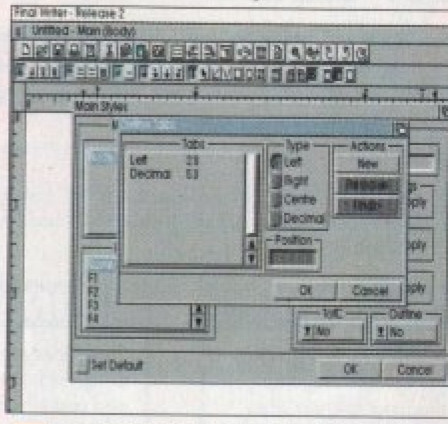
Likewise the Oblique gadget. You shouldn't really use this as a replacement for a proper italicised typeface, but it is very useful for adding a new slant to your document.

Over on the right of the type specs requester you can select superscript or subscript from the position drop-down menu, and beneath that you may select All Caps or Small Caps.

Small capitals are upper case letters whose height matches the height of the lower case letters in that point size (the 'x-height'). If a word has an initial capital, then that is left at its full height and only the subsequent letters are put into small caps.

Finally we come to Style, which is a rather confusing name for what is merely a drop down menu that enables you to select some underline options. Underlines make a document look amateurish; use them sparingly.

A good 'default' for leading is about 120% of the type size



Be careful not to position different tab styles at the same position

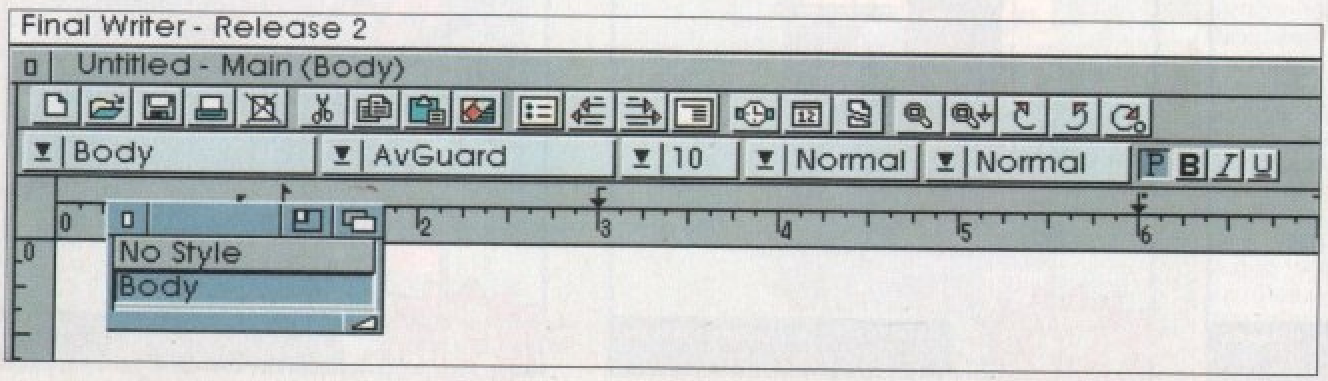
Everything selected, hit the OK gadget in the type specs requester, then the OK gadget on the main styles requester. Our style is now set up.

If you select Paragraph/Font/Style Strip from the View menu, the body style should appear in the gadget at the top left of the screen. Select View/Show Style palette to get the body style gadget into a floating window if you prefer. Remember, to save the style you must save the document.

To the casual user this must all seem like a hell of a lot of work just to get some text on the screen in a particular typeface and size. Indeed it is. And you don't have to do it this way.

However, the advantage is that you only have to set up your styles once, after which any style is literally one mouse click away. Without styles you would have to manually set all the parameters every time you wanted to change style.

Once you get used to the idea, I'm sure you'll find it a much more productive way to create documents, particularly if you want your documents to have a consistent look to them.



After setting up styles you may select them from a button strip from a floating 'palette' window

AMIGA COMPUTING READER OFFERS

ALL PRICES INC VAT & UK POSTAGE

Order Hotline: 051-357 1275

Fax: 051-357 2813 General Enquiries: 051-357 2961

Order at any time of the day or night. Don't forget to give your name, address and credit card number

PRO-PUNTER 2 PLUS

DO YOU WANT TO INCREASE YOUR CHANCES OF WINNING ON THE HORSES? THEN LOOK NO FURTHER

Independent comparative reviews confirm that Pro-Punter is still the performance benchmark by which all others are judged.

The best racing software... available, The Racing Post.

Officially proven to the racing press and other magazines by sending time and date franked letters by Post Office mail, Pro-Punter has shown that it can predict winners with remarkable accuracy. Pro-Punter is also cautious with your money. If it thinks there is any doubt about the outcome of the race, it will advise you not to bet.

The NEW second generation Pro-Punter is written to professional standards and is attractive and easy to use. It features full editing and review of race data entered and also a unique low-maintenance database that does not need constant updating.

In addition to UK features, Pro-Punter 2 contains unique course/going/class editors and will configure to metric weights/distances, thus allowing configuration for racing worldwide.

ONLY £45.00

Product	Price	Order No.
Pro Punter 2 + (1Mb req)	£75.00 (RRP £99.00)	9567

TURBO TOUCH JOYPAD

This is a radical new style of hand held controller. Just pass your finger over the sensor – No more finger fatigue or blisters. And thanks to better diagonal and circular (360°) control, the newest and most challenging games are easier to control and more fun to play. The Turbo Touch 360 brings a new dimension of control and comfort to video game play.



ONLY £16.99

Product	Price	Order No.
Turbo Touch Joypad	£16.99	9556

RE-INK SPRAY

Save money and the environment with Re-Ink Spray and bring back life to your exhausted printer ribbon. Simple and cost effective, it can save you up to 90% on ribbon costs and gives cleaner, blacker print with no blotches and it works for all fabric ribbons. Just open the ribbon case, spray Re-Ink onto the ribbon and hey presto!



ONLY £12.95

Product	Price	Order No.
Re-Ink Spray	£12.95	9998

MEGA MOUSE & LOGIC 3 MOUSE MAT

The well known Alpha Data Mega Mouse has ultra high 260dpi resolution with opto-mechanical encoder. The reliable microswitch buttons provide effortless finger-tip operation. Plus this high quality Logic 3 Mouse Mat.

SAVE £3.00

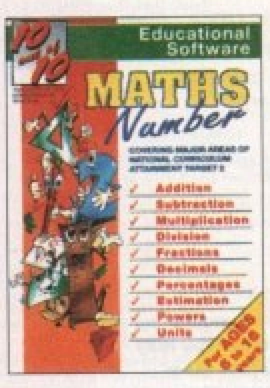


ONLY £15.99

Product	Price	Order No.
Mega Mouse & Logic 3 Mouse	£15.99	9984

10 OUT OF 10 MATHS (NUMBER)

For children 6 to 16 years. This is a first rate set of games suitable for a wide range of ages and abilities. They are educationally worthwhile and exciting to play – a rare combination. They are highly recommended for both home and school use.

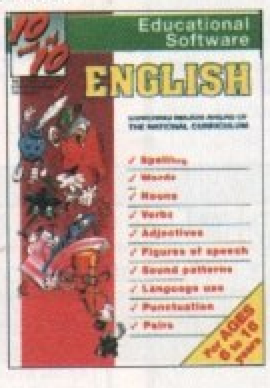


ONLY £15.95

Product	Price	Order No.
10 out of 10 Maths (Number)	£15.95	9944

10 OUT OF 10 ENGLISH

For children 6 to 16 years. With its elaborate system of colour coded levels of achievement and multiple levels of difficulty. This is a useful compilation of programs based on the current National Curriculum for English. Guaranteed to sustain the attention of even the most reluctant of learners.



ONLY £15.95

Product	Price	Order No.
10 out of 10 English	£15.95	9945

DISC DIARY

Disc Diary – the smartest way to carry up to six 3.5" floppy discs at a pocket money price.

Each case is made from tough semi-rigid polypropylene specially designed to protect against accidental damage whilst retaining the smart appearance of a wallet or pocket diary. A perfect practical gift not yet available in retail outlets. Available in black or grey.



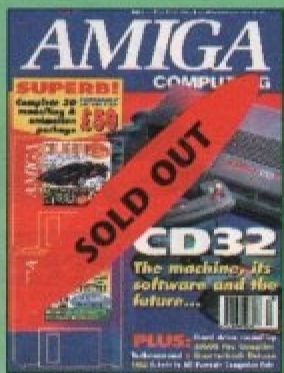
ONLY £4.50

Product	Price	Order No.
Disc Diary	£4.50	9985

AMIGA COMPUTING Back Issues & Binder

If you've missed any of these issues, now's your chance to put things right, by either buying an individual issue or a full six months' worth. But hurry - stocks are limited!

OCTOBER



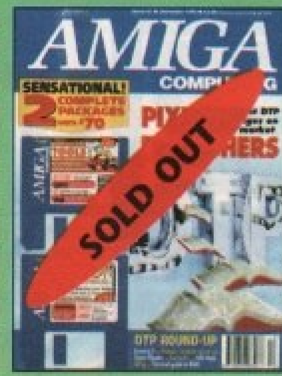
Amiga CD32 taken apart. Survival guide to modems. Hard drive round-up. Reviews of DSS8+, Technosound Turbo 2, Brilliance, AMOS Pro Compiler and Quarterback Tools Deluxe.
ON 2 DISKS: Caligari, 10 out of 10 Maths demo and F117A Stealth Fighter full mission demo VALUED AT £50

NOVEMBER



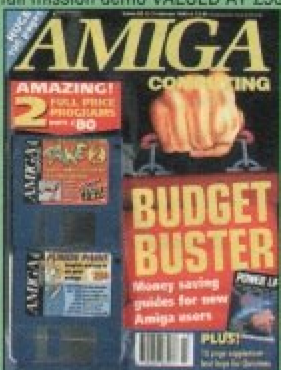
Modelling Madness, the ultimate guide to all things three dimensional. Sequencer round-up. Survival guide to scanners. E-mail for the masses. ***FREE*** 16 page CD32 supplement
ON 2 DISKS: AMOS 3D, Batdog, Stickit, ARoach, Virus Checker and Akeko-AGA

DECEMBER



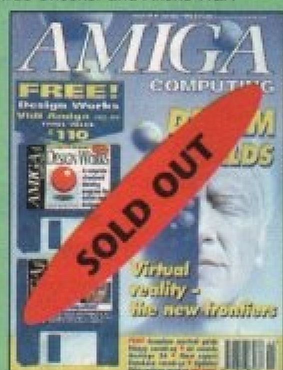
DTP round-up of the best DTP packages available. Survival guide to SIMMs, ZIPs and DRAMs. Reviews of Essence 2, Picasso 2, Hama 292 and MiniGen Pro. ***FREE*** Software encyclopaedia paperback book
ON 2 DISKS: Quarterback Tools, Harmoni Midi Sequencer VALUED at £70

XMAS ISSUE



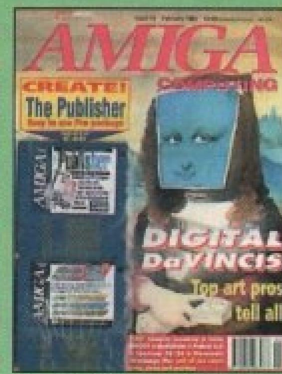
Money saving guide for new Amiga users, Word Processor round-up, RAM expansion round-up, Survival guide to floppies.
ON 2 DISKS: Take Two animation editor VALUED at £80, Fusion Paint VALUED at £30.

JANUARY



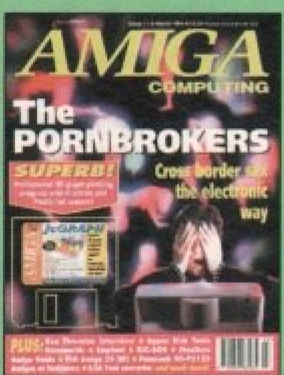
Virtual reality – the new frontiers, Samplers survival guide, Floppy round-up, AC awards, Montage 24, Show report, Database round-up, Paint package round-up. ***FREE 64 PAGE BOOK:*** All about the A1200.
ON 2 DISKS: Design Works VALUED at £50, Vidi Amiga (12) RT Software.

FEBRUARY



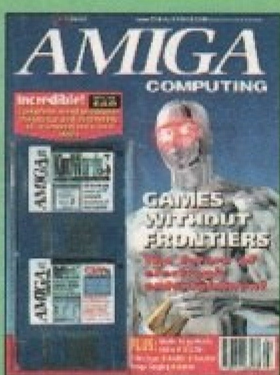
Amigas in the movies. Round-up of sound samplers and flight simulators. Reviews of Wavetools, I-Card, Protext v6.0, Star SJ144, TrapFax, Syndesis and Spectrum 28
ON 2 DISKS: The Publisher and MRBackup Professional VALUED at £40.

MARCH



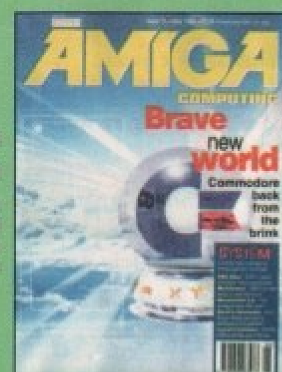
A look behind Babylon 5, PC and Mac emulation and a survival guide to monitors. Reviews of Vidi Amiga 24 RT, Humanoids, BJ600 and A2A.
ON DISK: JcGraph

APRIL



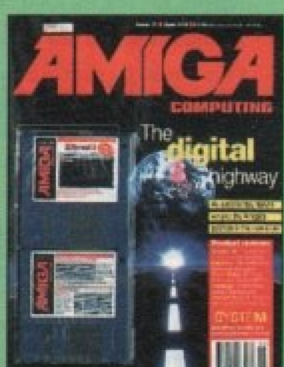
The future of computer games explored. What will they look like in ten years? Also, reviews of Helm, AMax Mac emulator, A1230+ accelerator, Tocatta 16-bit sound card, and A4091 SCSI-II card.
ON 2 DISKS: KindWords 3, a complete wysiwyg word processor with dictionary and thesaurus.

MAY



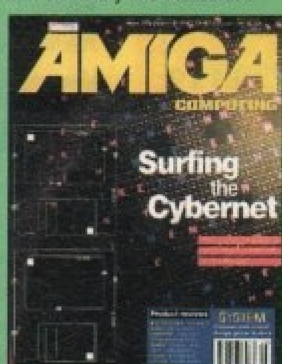
Can Commodore survive and take the Amiga forward. We look at the Amiga market as a whole. Plus: reviews of TBC Plus, Wordworth 3.0, Multiframe, Videostage Pro, and the ACE marketing initiative.
ON 2 DISKS: Personal Fonts Maker for creating your own custom fonts, Legacy of Sorasil complete playable level, and Epoch Master, a superb personal organiser.

JUNE



The information highway and where the Amiga fits in. Is the super-highway just a lot of hype? Plus: reviews of Final Writer 2, Distant Suns 5, Studio 16 latest sampling software
ON 2 DISKS: K-Spread 2 full commercial spreadsheet program, plus Virus Checker 6.34 and SysInfo.

AUGUST



How to survive and master the Internet. Plus: reviews of A1230 Turbo, ClariSSA the animator package, the Tabby graphics tablet and Liana.
ON 2 DISKS: Devpac v2 plus demo of 10 out of 10's French Tutor.

	Price	Order No.
October 1993 + 2 x 3.5" disk	£3.25	9766
November 1993 + 2 x 3.5" disk	£3.25	9767
December 1993 + 2 x 3.5" disk	£3.25	9768
Xmas Issue 1993 + 2 x 3.5" disk	£3.25	9769
January 1994 + 2 x 3.5" disk	£3.25	9770
February 1994 + 2 x 3.5" disk	£3.25	9771
March 1994 + 3.5" disk	£3.25	9772
April 1994 + 2 x 3.5" disk	£3.25	9773
May 1994 + 2 x 3.5" disk	£3.25	9774
June 1994 + 2 x 3.5" disk	£3.25	9775
August 1994 + 3.5" disk	£3.25	9777
Any 6 issues above	£18.00	
Amiga Computing Binder	£5.95	9509

All prices include VAT.

TEL: 051-357 1275



PREMIER
V I S I O N

Power are known as market leaders for being a step ahead of the rest and manufacturing innovative products for our customers. Now we have the pleasure of introducing the ultimate multimedia service for Corporate and Business users.

AIMS

You've heard how the Amiga has made television programmes possible such as Star Trek-The Next Generation, Babylon 5, Seaquest DSV, even the wire frame modelling for Jurassic Park was created on the Amiga. But how do you find out how to make the Amiga work for you?

Premier Vision services

SEMINARS

Monthly events on Digital Television, Multi-media, Audio & Music production, are designed to show how the Amiga is used for specific applications.

INSTALLATION

We can design and install complete systems.

TRAINING

One to one, or one to two training for specific applications or software products.

Official Scala Training Centre

BESPOKE

We create complete custom Multi-Media systems for point of information, point of sale, training and education, including CD-ROM mastering and duplication.

Products

Personal Animation Recorder, Sunrise, AD516, Warp Engines, Video Toaster, Peggy Plus MPeg Decoder, Lightwave 3D, Info Channel, Scala Multi-Media and Bars & Pipes Professional

CLIENTS

21st Century
CIC Video
Granada TV
National Trust
British Gas
Shell
Ministry of Defence

For information please call
071 721 7050



MEGACHIP RAM

Increase your Amiga 500/2000 chip RAM to a total of 2MB. MegaChip does this by using its own 1MB of RAM and drawing extra memory from any other RAM you have installed in your Amiga. No soldering is required.

MegaChip RAM **£159**

MEMORY EXPANSION

We manufacture a vast range of memory cards for the Amiga 500, 500+, 600, 1200, 1500, 2000, 3000 and 4000. Please telephone us for prices and availability.



EMPLANT MAC EMULATOR

This Macintosh emulation board boasts to many features to list all of them, for further details please contact Power. Some of the features include full colour support, stereo sound, hard drive support, Mac 800K and Mac/IBM 1.44MB support, Appletalk, SCSI devices, printers, scanners and CD-ROM etc.

Basic **£279.95**
Basic + Appletalk **£329.95**
Basic + SCSI Interface **£329.95**
Basic + Appletalk/SCSI Interface **£379.95**

OCTOGEN SCSI-2

SCSI-2 board for the Amiga 2000 including memory expansion capabilities of up to 8MB.

Octogen SCSI-2 .... **£129**

CO-PROCESSOR

All maths co-processors include crystals.

20MHz **£25**
33MHz **£60**
40MHz **£80**
50MHz (PGA) **£120**

CHIPS & SPARES

Call for your requirements .... **£POA**



DKB 4091

The DKB 4091 (licensed by Commodore) SCSI Host Adaptor is a high performance board that connects up to seven SCSI devices to your Amiga. The DKB 4091 features: Full Zorro III implementation, fast SCSI-2 implementation, SCSI internal connector and ribbon cable, high density SCSI-2 external connector, direct memory access (DMA) and hardware to install a 3.5" hard drive on the board.

DKB 4091 .... **£299**

PC1202-8

Accelerator memory board for the A1200.

PC1202-8 Bare **£79.95**
PC1202-8 2MB (No FPU) **£159.95**
PC1202-8 4MB (No FPU) **£239.95**



TANDEM CD-DE

- For 1500/2000/3000/4000
- Supports Mitsuma LU005 CD-ROM & FX001D double speed CD-ROM drives
- Supports Syquest 3.5" drives
- Supports IDE hard drives
- Play audio CD utility
- Requires KickStart 2.04 and above
- Includes cables, software and manual

Tandem CD-DE card **£69**
Tandem CD-DE A1200 card **£69**
Tandem CD-DE & CD Drive **£229**
Mitsuma CD-ROM Drive **£160**

AUTO ROM SHARE

ROM Share **£19.95**
ROM Share including v2.04 .... **£50**
ROM Share including v1.3 .... **£39**
ROM Share A600 .... **£29**
ROM Share A600 v1.3 .... **£55**

VGA ADAPTOR

VGA Adaptor **£15**



POWERSCAN 4

Produce 256 greyscale images (AGA machine), scan in 64 greyscales (non AGA Amiga can only display 16), add colour to greyscale images, special effects, new support for 18-bit scanner, add text to scans. A1200/600 version available. Requires 2.04

PowerScan 4 (Mono) **£119**
PowerScan 4 inc. OCR **£139**
PowerScan 4 upgrade interface **£50**
PowerScan 4 upgrade software **£20**
OCR Full version **£49**

"PowerScan is virtually flawless. Highly recommended" Amiga Format

EPSON SCANNERS

The GT-6500 and GT-8000 24-bit colour flatbed scanners from Epson scan up to A4 in size, with output resolutions of up to 1200DPI on the GT-6500 and 1600DPI on the GT-8000 in 16.7 million colours, greyscale or line art. The scanners include either PowerScan or Image FX scanning software.

Epson GT-6500 PowerScan **£599**
Epson GT-6500 Image FX **£689**
Epson GT-8000 PowerScan **£849**
Epson GT-8000 Image FX **£929**
Document Feeder **£399**

DISK EXPANDER

- Can add 50% to your hard drive capacity at a stroke
- Fast compression and decompression
- Flexible and expandable as new compression libraries are developed
- Works with all drives, including SCSI, IDE, Floppies, and even the RAM disk
- Reliable in tests - no data corruption
- Once installed the program is transparent to the user
- Works on any Amiga and any KickStart

Disk Expander **£35**
Floppy Expander (Compress files on disks) **£9.95**

VIDEO BACKUP

Use a VCR as backup. 200 Amiga floppy disks fit on to a 4Hr tape. Allows you to watch TV on your 1084s monitor.

Video Backup Scart **£65**
Video Backup Phono **£60**



POWER COMPUTING LTD

44a/b Stanley Street Bedford MK41 7RW
Tel 0234 273000 Fax 0234 352207



ACEEX FAX MODEM

- External Fax & Data modem
- Receive & send faxes in the backgrpound
- Full Haynes AT command set supported
- Supports class 1, 2 and 3 fax commands
- Fax send & receive
- Auto dial & Auto answer
- Supports error correction + detection
- Leased line support
- All cables & manuals supplied

Aceex Modem v.32 bis **£169**
Aceex Modem v.32 bis inc. TrapFax **£199**

WARP ENGINE

High Speed 040 Acceleration, up to 128MB of Memory. Fast SCSI-II Controller, all of this expansion is on a single board that installs into the CPU slot - NOT a Zorro III Slot!

- Very High Speed Local 040 Memory Bus with full 040 burst access
- NCR 53C710 40MHz SCSI-2 Fast Controller connected directly to the 040
- 32Bit SCSI host bus DMA interface supporting burst to and from the RAM
- Supports 10MB/s SCSi Transfers.
- Full DMA allows the CPU to still have 90% Processing Power while doing Transfers
- No Zorro III DMA Problems
- Fully Autoconfiguarable with optional Autoboot capability for SCSI
- 32Bit RAM Expansion Up to 128MB
- Uses Standard 72Pin SIMM Modules
- Allows Mixing of RAM Module Sizes
- Supports 4,8,16,32MB SIMM Modules
- Uses the Memory that is installed on the Amiga 4000 MotherBoard
- Supports DMA access from ZorroIII Devices to onboard Memory
- A3000 Version supports up to 64MB of 32Bit Memory
- A3000 Engine will clock 16MHz MotherBoards at 25MHz

Warp Engine 28MHz................ **£799**
Warp Engine 40MHz............. **£1199**

Amiga 4000 only



FARGO PRIMERA

Primera printer **£649**
Photo realistic upgrade kit **£199**
Photo realistic refill kit (100 prints) .**£250**
Photo realistic refill kit (25 prints) **£79.95**
4 colour ribbon (80 prints) **£38.95**
3 colour ribbon (115 prints) .. **£38.95**
Monochrome ribbon (400 prints) **£31.95**
Primera paper (A4 200 sheets) **£18**
T-Shirt transfer paper (A4 10 sheets) .**£17.95**
Primera & Studio DS software **£699**
(Studio software is a true 24-bit printer driver)

SCSI/IDE DRIVES

We can supply SCSI or IDE 3.5"/2.5" hard drives in many different sizes. Including cables and installation software.

80MB IDE 2.5" Internal.............. **£160**
130MB IDE 2.5" Internal **£229**
180MB IDE 2.5" Internal **£270**
260MB IDE 2.5" Internal **£359**
52QMB SCSI............................ **£129**
200MB SCSI............................ **£349**
500MB SCSI............................ **£499**
1GB SCSI................................. **£699**

SYQUEST DRIVES

3.5" IDE Internal......................... **£499**
3.5" IDE External **£579**
3.5" 105MB Cartridge..................... **£79**
3.5" SCSI version available £POA

POWER OPTICAL

128MB Optical Internal................ **£699**
128MB Optical External **£779**
128MB Optical Disk **£35**
SCSI Controller A2000................ **£129**

X-BACKUP PRO

X-Backup Pro (Hardware designed by us) **£29.95**



NEW MIDI INTERFACE

Midi Interface (new Midi chip) .**£19.95**

new colour



The new 18-bit colour hand scanner produces stunning colours with clarity and verve, brightning up those presentations. With over 250,000 colours and award winning PowerScan software, anything is possible!

Colour and mono software
Full image manipulation
Up to 400DPI
256 Greyscale (AGA machine)
18-bit colour (AGA machine)
OCR optional extra
Requires 2.04 ROM

the best scanner program available
Amiga Format July '94

£239
POWERSCAN COLOUR

Order Form

Name	....
Address	....
	.... Postcode ....
Telephone No.	....
System Owned	....
Description	....
	....
	....
I enclose a cheque/PO for £	....
Credit Card No.	....
Expiry Date	....
Signature	....

Delivery next day £5.00 2-3 days £2.50 Saturday £10.00 deliveries are subject to stock availability.
Please make cheques payable to Power Computing Ltd, please allow upto 7 days for cheque clearance.

guarantee. Prices are valid for the month of publication only. E & OE. All prices include VAT. Power Computing Ltd 1994